

**Laboratory Report Number:** L12020399

Mark Lyon  
Environmental Waste Solutions  
2440 Louisiana Blvd  
Albuquerque, NM 87110

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

Laboratory Contact:  
Stephanie Mossburg – Team Chemist/Data Specialist  
(740) 373-4071  
Stephanie.Mossburg@microbac.com

*I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.*

This report was certified on March 05 2012



David Vandenberg – Managing Director

State of Origin: NM  
Accrediting Authority: N/A ID:N/A  
QAPP: DOD Ver 4.1



Microbac Laboratories \* Ohio Valley Division  
158 Starlite Drive, Marietta, OH 45750 \* T: (740) 373-4071 F: (740) 373-4835 \* www.microbac.com

## Record of Sample Receipt and Inspection

### Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

There were no discrepancies.

Discrepancy	Resolution
-------------	------------

### Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #
0016407	G	0.0		1015923851960004575000795761726710
0010314		0.0		1015923851960004575000795761726709
0012240	G	0.0		1002239551960004575000874824307392

### Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	Were correct preservatives used? (water only)	Yes
11	Were pH ranges acceptable? (voa's excluded)	Yes
12	Were VOA samples free of headspace (less than 6mm)?	NA

**Samples Received**

Client ID	Laboratory ID	Date Collected	Date Received
HTA19-0212-1	L12020399-01	02/13/2012 10:40	02/14/2012 12:27
HTA19-0212-1	L12020399-02	02/13/2012 10:40	02/14/2012 12:27
HTA19-0212-2	L12020399-03	02/13/2012 10:40	02/14/2012 12:27
HTA19-0212-2	L12020399-04	02/13/2012 10:40	02/14/2012 12:27
HTA16D-0212-1	L12020399-05	02/13/2012 12:00	02/14/2012 12:27
HTA16D-0212-1	L12020399-06	02/13/2012 12:00	02/14/2012 12:27
HTA16-0212-1	L12020399-07	02/13/2012 13:05	02/14/2012 12:27
HTA16-0212-1	L12020399-08	02/13/2012 13:05	02/14/2012 12:27
HTA17-0212-1	L12020399-09	02/13/2012 14:20	02/14/2012 12:27
HTA17-0212-1	L12020399-10	02/13/2012 14:20	02/14/2012 12:27
HTA15-0212-1	L12020399-11	02/13/2012 15:35	02/14/2012 12:27
HTA15-0212-1	L12020399-12	02/13/2012 15:35	02/14/2012 12:27



**Login Number:** L12020399  
**Department:** General Chromatography  
**Analyst:** John W. Richards Jr.

## METHOD

**Analysis** SW-846 6850

## HOLDING TIMES

**Sample Preparation:** All holding times were met.

**Sample Analysis:** All holding times were met.

## PREPARATION

Sample preparation proceeded normally.

## CALIBRATION

**Initial Calibration:** For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

**Alternate Source Standards:** All acceptance criteria were met.

**Continuing Calibration and Tune:** All acceptance criteria were met.

## BATCH QA/QC

**Method Blank:** All acceptance criteria were met.

**Laboratory Control Sample:** All acceptance criteria were met.

**Matrix Spikes:** The MS/MSD results were not associated with this sample delivery group.

## SAMPLES

**Samples:** Samples 01, 03, 05, 07, 09 and 11 were analyzed at a dilution to be within calibration range.

**Internal Standards:** All acceptance criteria were met.

## Manual Integration Reason Codes

**Reason #1: Data System Fails to Select Correct Peak** In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

**Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak** This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

**Reason #3: Improperly Integrated Isomers and/or coeluting compounds.** This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

**Reason #4: System Establishes Incorrect Baseline** There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

**Reason #5: Miscellaneous** Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor

will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

**Narrative ID:** 42832

**Approved By:** Mike Cochran





**Login Number:** L12020399  
**Department:** Conventional  
**Analyst:** Dorothy Payne

**METHOD**

**Analysis** SW846 9040C,9045D/EPA 150.1/SM4500-H B (pH)

**HOLDING TIMES**

**Sample Analysis:** All holding times were met.

**PREPARATION**

Sample preparation proceeded normally.

**BATCH QA/QC**

**Method Blank:** All acceptance criteria were met.

**Laboratory Control Sample:** All acceptance criteria were met.

**Matrix Spikes:** All acceptance criteria were met.

**Duplicates:** All acceptance criteria were met.

**SAMPLES**

**Samples:** All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

**Narrative ID:** 42406

**Approved By:** Deanna Hesson

A handwritten signature in black ink, appearing to read "Deanna Hesson", is written over the printed name.



**Login Number:** L12020399  
**Department:** General Chromatography  
**Analyst:** Eric Lawson

## METHOD

**Analysis** SW-846 8330

## HOLDING TIMES

**Sample Preparation:** All holding times were met.

**Sample Analysis:** All holding times were met.

## PREPARATION

Sample preparation proceeded normally.

## CALIBRATION

**Initial Calibration:** For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

**Alternate Source Standards:** The percent difference was out of range for the following analytes: Tetryl. Please see the applicable QC report for a detailed presentation of the failures.

**Continuing Calibration and Tune:** Recoveries out of range were observed for the following analytes: Tetryl. Please see the applicable QC report for a detailed presentation of the failures.

## BATCH QA/QC

**Method Blank:** All acceptance criteria were met.

**Laboratory Control Sample:** All acceptance criteria were met.

**Matrix Spikes:** There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

## SAMPLES

**Samples:** Sample 09 was analyzed at a dilution to be within calibration range. All positive hits were confirmed by second column analysis.

**Surrogates:** All acceptance criteria were met.

## Manual Integration Reason Codes

**Reason #1: Data System Fails to Select Correct Peak** In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

**Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak** This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

**Reason #3: Improperly Integrated Isomers and/or coeluting compounds.** This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

**Reason #4: System Establishes Incorrect Baseline** There are numerous situations in chromatography where the

system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

**Reason #5: Miscellaneous** Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

**Narrative ID:** 42802

**Approved By:** Mike Cochran





**Login Number:** L12020399  
**Department:** Metals  
**Analyst:** Kim Rhodes

#### **METHOD**

**Preparation:** SW-846 3005

**Analysis:** SW-846 6010

#### **HOLDING TIMES**

**Sample Preparation:** All holding times were met.

**Sample Analysis:** All holding times were met.

#### **PREPARATION**

Sample preparation proceeded normally.

#### **CALIBRATION**

**Initial Calibration:** All acceptance criteria were met.

**Alternate Source Standards:** All acceptance criteria were met.

**Interference Check Standards:** All acceptance criteria were met.

**Continuing Calibration Verification:** All acceptance criteria were met.

**Continuing Calibration Blank:** All acceptance criteria were met.

#### **BATCH QA/QC**

**Method Blank:** All acceptance criteria were met.

**Laboratory Control Sample:** All acceptance criteria were met.

**Serial Dilution/Post Digestion Spikes:** WG389817 - Tin was not added to the initial post digestion spike analyzed on 16-Feb-2012 at 14:54, therefore, it was reanalyzed for all analytes at 16:02.

**Matrix Spikes:** All acceptance criteria were met.

#### **SAMPLES**

**Samples:** WG389817 - Client samples 02, 04, 06, 08, 10, and 12 were reanalyzed at dilutions in order to obtain results for calcium and magnesium within the calibration range.

**Narrative ID:** 42299

**Approved By:** Sheri Pfalzgraf

A handwritten signature in black ink, appearing to read "Sheri L. Pfalzgraf".



**Login Number:** L12020399  
**Department:** Metals  
**Analyst:** Erin Long

#### **METHOD**

**Preparation:** SW-846 3015

**Analysis:** SW-846 6020

#### **HOLDING TIMES**

**Sample Preparation:** All holding times were met.

**Sample Analysis:** All holding times were met.

#### **PREPARATION**

Sample preparation proceeded normally.

#### **CALIBRATION**

**Initial Calibration:** All acceptance criteria were met.

**Alternate Source Standards:** All acceptance criteria were met.

**Interference Check Standards:** All acceptance criteria were met.

**Continuing Calibration:** All acceptance criteria were met.

**Continuing Calibration Blank:** All acceptance criteria were met.

**Low Level Check:** All acceptance criteria were met.

#### **BATCH QA/QC**

**Method Blank:** All acceptance criteria were met.

**Laboratory Control Sample:** All acceptance criteria were met.

**Serial Dilution/Post Digestion Spikes:** WG389782 - All acceptance criteria were met.

**Matrix Spikes:** All acceptance criteria were met.

#### **SAMPLES**

**Samples:** All acceptance criteria were met.

**Narrative ID:** 42303

**Approved By:** Sheri Pfalzgraf

A handwritten signature in black ink, appearing to read "Sheri L. Pfalzgraf".



**Login Number:** L12020399  
**Department:** Metals - AA  
**Analyst:** Pierce Morris

#### **METHOD**

**Preparation:** SW-846 7470

**Analysis:** SW-846 7470

#### **HOLDING TIMES**

**Sample Preparation:** All holding times were met.

**Sample Analysis:** All holding times were met.

#### **PREPARATION**

Sample preparation proceeded normally.

#### **CALIBRATION**

**Initial Calibration:** All acceptance criteria were met.

**Alternate Source Standards:** All acceptance criteria were met.

**Interference Check Standards:** All acceptance criteria were met.

**Continuing Calibration Verification:** All acceptance criteria were met.

**Continuing Calibration Blank:** All acceptance criteria were met.

#### **BATCH QA/QC**

**Method Blank:** All acceptance criteria were met.

**Laboratory Control Sample:** All acceptance criteria were met.

**Serial Dilution/Post Digestion Spikes:** WG389917 - All acceptance criteria were met.

**Matrix Spikes:** All acceptance criteria were met.

#### **SAMPLES**

**Samples:** All acceptance criteria were met.

**Narrative ID:** 42441

**Approved By:** Sheri Pfalzgraf

A handwritten signature in black ink, appearing to read "Sheri L. Pfalzgraf", is written over the printed name.



**Login Number:** L12020399  
**Department:** General Chromatography  
**Analyst:** Jeremy Kinney

## METHOD

**Analysis** SW-846 9056/300.0

## HOLDING TIMES

**Sample Preparation:** All holding times were met.

**Sample Analysis:** All holding times were met.

## PREPARATION

Sample preparation proceeded normally.

## CALIBRATION

**Initial Calibration:** All acceptance criteria were met.

**Alternate Source Standards:** All acceptance criteria were met.

**Continuing Calibration and Tune:** All acceptance criteria were met.

## BATCH QA/QC

**Method Blank:** All acceptance criteria were met.

**Laboratory Control Sample:** All acceptance criteria were met.

**Matrix Spikes:** All acceptance criteria were met.

## SAMPLES

**Samples:** All acceptance criteria were met.

**Surrogates:** All acceptance criteria were met.

## Manual Integration Reason Codes

**Reason #1: Data System Fails to Select Correct Peak** In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

**Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak** This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

**Reason #3: Improperly Integrated Isomers and/or coeluting compounds.** This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

**Reason #4: System Establishes Incorrect Baseline** There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

**Reason #5: Miscellaneous** Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

**Narrative ID:** 42353

**Approved By:** Jeremy Kinney





**Login Number:** L12020399  
**Department:** Conventional  
**Analyst:** Deanna Hesson

#### **METHOD**

**Analysis** EPA 310.2 (Alkalinity)

#### **HOLDING TIMES**

**Sample Analysis:** All holding times were met.

#### **PREPARATION**

Sample preparation proceeded normally.

#### **BATCH QA/QC**

**Method Blank:** All acceptance criteria were met.

**Laboratory Control Sample:** All acceptance criteria were met.

**Matrix Spikes:** All acceptance criteria were met.

**Duplicates:** All acceptance criteria were met.

#### **SAMPLES**

**Samples:** All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

**Narrative ID:** 42405

**Approved By:** Deanna Hesson

A handwritten signature in black ink, appearing to read "Deanna Hesson", is written over the printed name.



**Login Number:** L12020399  
**Department:** Conventional  
**Analyst:** Jeremy Kinney

#### **METHOD**

**Analysis** EPA 353.2/SM4500-NO3 F (Nitrate)

#### **HOLDING TIMES**

**Sample Analysis:** Nitrate is reported as the difference of nitrate-nitrite (28 day hold) and nitrite (48 hour hold). Both analysis were analyzed within the appropriate hold time. The nitrate hold time is within compliance.

#### **PREPARATION**

Sample preparation proceeded normally.

#### **BATCH QA/QC**

**Method Blank:** All acceptance criteria were met.

**Laboratory Control Sample:** All acceptance criteria were met.

**Matrix Spikes:** All acceptance criteria were met.

**Duplicates:** All acceptance criteria were met.

#### **SAMPLES**

**Samples:** All acceptance criteria were met.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

**Narrative ID:** 42407

**Approved By:** Deanna Hesson

A handwritten signature in black ink, appearing to read "Deanna Hesson", is written over the printed name.

## Certificate of Analysis

<b>Sample #:</b> L12020399-01	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> LCMS1
<b>Client ID:</b> HTA19-0212-1	<b>Prep Method:</b> 6850	<b>Prep Date:</b> 02/23/2012 13:15
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6850	<b>Cal Date:</b> 01/24/2012 17:25
<b>Workgroup #:</b> WG390462	<b>Analyst:</b> JWR	<b>Run Date:</b> 02/24/2012 16:19
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 5000	<b>File ID:</b> 1LM.LM15417
<b>Sample Tag:</b> DL01	<b>Units:</b> ug/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Perchlorate	14797-73-0	8900		1000	500

<b>Sample #:</b> L12020399-01	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> HPLC5
<b>Client ID:</b> HTA19-0212-1	<b>Prep Method:</b> METHOD	<b>Prep Date:</b> 02/15/2012 08:20
<b>Matrix:</b> Water	<b>Analytical Method:</b> 8330B	<b>Cal Date:</b> 02/10/2011 16:32
<b>Workgroup #:</b> WG389703	<b>Analyst:</b> ECL	<b>Run Date:</b> 02/16/2012 17:47
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> 5L006486.F
<b>Sample Tag:</b> 01	<b>Units:</b> ug/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
1,3,5-Trinitrobenzene	99-35-4		U	1.11	0.278
1,3-Dinitrobenzene	99-65-0		U	1.11	0.278
2,4,6-Trinitrotoluene	118-96-7		U	1.11	0.278
2,4-Dinitrotoluene	121-14-2		U	1.11	0.278
2,6-Dinitrotoluene	606-20-2		U	1.11	0.278
2-Amino-4,6-dinitrotoluene	35572-78-2		U	1.11	0.278
2-Nitrotoluene	88-72-2		U	1.11	0.278
3-Nitrotoluene	99-08-1		U	1.11	0.278
4-Nitrotoluene	99-99-0		U	1.11	0.278
4-Amino-2,6-dinitrotoluene	19406-51-0		U	1.11	0.278
HMX	2691-41-0		U	1.11	0.278
Nitrobenzene	98-95-3		U	1.11	0.278
RDX	121-82-4		U	1.11	0.278
Tetryl	479-45-8		U	1.11	0.278

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dinitrobenzene	83.9	50	150	

U	Analyte was not detected. The concentration is below the reported LOD.				
---	--	--	--	--	--

## Certificate of Analysis

<b>Sample #:</b> L12020399-01	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ICP-THERMO2
<b>Client ID:</b> HTA19-0212-1	<b>Prep Method:</b> 3005A	<b>Prep Date:</b> 02/16/2012 07:08
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6010B	<b>Cal Date:</b> 02/16/2012 08:38
<b>Workgroup #:</b> WG389817	<b>Analyst:</b> KHR	<b>Run Date:</b> 02/16/2012 14:38
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> T2.021612.143812
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Iron, Total	7439-89-6		U	0.100	0.0500
Manganese, Total	7439-96-5		U	0.0100	0.00500
U	Analyte was not detected. The concentration is below the reported LOD.				

<b>Sample #:</b> L12020399-01	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> IC1
<b>Client ID:</b> HTA19-0212-1	<b>Prep Method:</b> 300.0	<b>Prep Date:</b> 02/15/2012 18:06
<b>Matrix:</b> Water	<b>Analytical Method:</b> 300.0	<b>Cal Date:</b> 02/10/2012 10:32
<b>Workgroup #:</b> WG389618	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/15/2012 21:17
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> I10215122117.45
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Fluoride	16984-48-8	3.63		0.200	0.100

<b>Sample #:</b> L12020399-01	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> IC1
<b>Client ID:</b> HTA19-0212-1	<b>Prep Method:</b> 300.0	<b>Prep Date:</b> 02/15/2012 18:06
<b>Matrix:</b> Water	<b>Analytical Method:</b> 300.0	<b>Cal Date:</b> 02/10/2012 10:32
<b>Workgroup #:</b> WG389618	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/16/2012 12:31
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 5	<b>File ID:</b> I10216121231.75
<b>Sample Tag:</b> DL01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Chloride	16887-00-6	48.3		1.00	0.500
Sulfate	14808-79-8	168		5.00	2.50

<b>Sample #:</b> L12020399-01	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ORION-4STAR
<b>Client ID:</b> HTA19-0212-1	<b>Prep Method:</b> 9040C	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 9040C	<b>Cal Date:</b>
<b>Workgroup #:</b> WG389585	<b>Analyst:</b> DLP	<b>Run Date:</b> 02/14/2012 17:42
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> OS12021515240401
<b>Sample Tag:</b>	<b>Units:</b> UNITS	

Analyte	CAS #	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	7.48		0.000	0.000

## Certificate of Analysis

<b>Sample #:</b> L12020399-01	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA19-0212-1	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:39
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.030
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )		197		20.0	10.0

<b>Sample #:</b> L12020399-01	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA19-0212-1	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:39
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.030
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Carbonate (as CaCO <sub>3</sub> )			U	20.0	10.0

U	Analyte was not detected. The concentration is below the reported LOD.				
---	--	--	--	--	--

<b>Sample #:</b> L12020399-01	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA19-0212-1	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:39
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.030
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Total (as CaCO <sub>3</sub> )		197		20.0	10.0

<b>Sample #:</b> L12020399-01	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA19-0212-1	<b>Prep Method:</b> 353.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 353.2	<b>Cal Date:</b> 02/14/2012 11:13
<b>Workgroup #:</b> WG389640	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/15/2012 11:13
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> SC12021615505601
<b>Sample Tag:</b>	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Nitrate-Nitrite (as N)			U	0.0500	0.0250

U	Analyte was not detected. The concentration is below the reported LOD.				
---	--	--	--	--	--

## Certificate of Analysis

<b>Sample #:</b> L12020399-02	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ICP-THERMO2
<b>Client ID:</b> HTA19-0212-1	<b>Prep Method:</b> 3005A	<b>Prep Date:</b> 02/16/2012 07:08
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6010B	<b>Cal Date:</b> 02/16/2012 08:38
<b>Workgroup #:</b> WG389817	<b>Analyst:</b> KHR	<b>Run Date:</b> 02/16/2012 14:41
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> T2.021612.144128
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

  

Analyte	CAS #	Result	Qual	LOQ	LOD
Aluminum, Dissolved	7429-90-5		U	0.100	0.0500
Beryllium, Dissolved	7440-41-7		U	0.00200	0.00100
Iron, Dissolved	7439-89-6		U	0.100	0.0500
Manganese, Dissolved	7439-96-5		U	0.0100	0.00500
Potassium, Dissolved	7440-09-7	1.30		1.00	0.500
Sodium, Dissolved	7440-23-5	61.6		0.500	0.250
Tin, Dissolved	7440-31-5		U	0.500	0.250
Vanadium, Dissolved	7440-62-2		U	0.0100	0.00500
Zinc, Dissolved	7440-66-6		U	0.0200	0.0100
U	Analyte was not detected. The concentration is below the reported LOD.				

<b>Sample #:</b> L12020399-02	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ICP-THERMO2
<b>Client ID:</b> HTA19-0212-1	<b>Prep Method:</b> 3005A	<b>Prep Date:</b> 02/16/2012 07:08
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6010B	<b>Cal Date:</b> 02/17/2012 09:11
<b>Workgroup #:</b> WG389817	<b>Analyst:</b> KHR	<b>Run Date:</b> 02/17/2012 09:34
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 10	<b>File ID:</b> T2.021712.093434
<b>Sample Tag:</b> DL01	<b>Units:</b> mg/L	

  

Analyte	CAS #	Result	Qual	LOQ	LOD
Calcium, Dissolved	7440-70-2	113		2.00	1.00
Magnesium, Dissolved	7439-95-4	27.7		5.00	2.50

<b>Sample #:</b> L12020399-02	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ELAN-ICP
<b>Client ID:</b> HTA19-0212-1	<b>Prep Method:</b> 3015	<b>Prep Date:</b> 02/16/2012 10:00
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6020	<b>Cal Date:</b> 02/16/2012 16:04
<b>Workgroup #:</b> WG389782	<b>Analyst:</b> EDL	<b>Run Date:</b> 02/16/2012 20:50
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> EL.021612.205033
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

  

Analyte	CAS #	Result	Qual	LOQ	LOD
Antimony, Dissolved	7440-36-0		U	0.00100	0.000500
Arsenic, Dissolved	7440-38-2		U	0.00100	0.000500
Barium, Dissolved	7440-39-3	0.0341		0.00300	0.00150
Cadmium, Dissolved	7440-43-9		U	0.000600	0.000300

## Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD
Chromium, Dissolved	7440-47-3		U	0.00200	0.00100
Cobalt, Dissolved	7440-48-4	0.000847	J	0.00100	0.000500
Copper, Dissolved	7440-50-8		U	0.00200	0.00100
Lead, Dissolved	7439-92-1		U	0.00100	0.000500
Nickel, Dissolved	7440-02-0	0.00408		0.00400	0.00200
Selenium, Dissolved	7782-49-2	0.00413		0.00100	0.000500
Silver, Dissolved	7440-22-4		U	0.00100	0.000500
Thallium, Dissolved	7440-28-0		U	0.000200	0.000100
J	Estimated value ; the analyte concentration was less than the LOQ.				
U	Analyte was not detected. The concentration is below the reported LOD.				

**Sample #:** L12020399-02      **PrePrep Method:** N/A      **Instrument:** HYDRA  
**Client ID:** HTA19-0212-1      **Prep Method:** 7470A      **Prep Date:** 02/16/2012 07:13  
**Matrix:** Water      **Analytical Method:** 7470A      **Cal Date:** 02/17/2012 13:00  
**Workgroup #:** WG389917      **Analyst:** PDM      **Run Date:** 02/17/2012 13:19  
**Collect Date:** 02/13/2012 10:40      **Dilution:** 1      **File ID:** HY.021712.131940  
**Sample Tag:** 01      **Units:** mg/L

Analyte	CAS #	Result	Qual	LOQ	LOD
Mercury, Dissolved	7439-97-6		U	0.000200	0.000100
U	Analyte was not detected. The concentration is below the reported LOD.				

**Sample #:** L12020399-03      **PrePrep Method:** N/A      **Instrument:** LCMS1  
**Client ID:** HTA19-0212-2      **Prep Method:** 6850      **Prep Date:** 02/23/2012 13:15  
**Matrix:** Water      **Analytical Method:** 6850      **Cal Date:** 01/24/2012 17:25  
**Workgroup #:** WG390462      **Analyst:** JWR      **Run Date:** 02/24/2012 16:38  
**Collect Date:** 02/13/2012 10:40      **Dilution:** 5000      **File ID:** 1LM.LM15418  
**Sample Tag:** DL01      **Units:** ug/L

Analyte	CAS #	Result	Qual	LOQ	LOD
Perchlorate	14797-73-0	8950		1000	500

**Sample #:** L12020399-03      **PrePrep Method:** N/A      **Instrument:** HPLC5  
**Client ID:** HTA19-0212-2      **Prep Method:** METHOD      **Prep Date:** 02/15/2012 08:20  
**Matrix:** Water      **Analytical Method:** 8330B      **Cal Date:** 02/10/2011 16:32  
**Workgroup #:** WG389703      **Analyst:** ECL      **Run Date:** 02/16/2012 18:26  
**Collect Date:** 02/13/2012 10:40      **Dilution:** 1      **File ID:** 5L006487.F  
**Sample Tag:** 01      **Units:** ug/L

Analyte	CAS #	Result	Qual	LOQ	LOD
1,3,5-Trinitrobenzene	99-35-4		U	1.02	0.255

## Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD
1,3-Dinitrobenzene	99-65-0		U	1.02	0.255
2,4,6-Trinitrotoluene	118-96-7		U	1.02	0.255
2,4-Dinitrotoluene	121-14-2		U	1.02	0.255
2,6-Dinitrotoluene	606-20-2		U	1.02	0.255
2-Amino-4,6-dinitrotoluene	35572-78-2		U	1.02	0.255
2-Nitrotoluene	88-72-2		U	1.02	0.255
3-Nitrotoluene	99-08-1		U	1.02	0.255
4-Nitrotoluene	99-99-0		U	1.02	0.255
4-Amino-2,6-dinitrotoluene	19406-51-0		U	1.02	0.255
HMX	2691-41-0		U	1.02	0.255
Nitrobenzene	98-95-3		U	1.02	0.255
RDX	121-82-4		U	1.02	0.255
Tetryl	479-45-8		U	1.02	0.255
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
1,2-Dinitrobenzene	97.0	50	150		
U	Analyte was not detected. The concentration is below the reported LOD.				

<b>Sample #:</b> L12020399-03		<b>PrePrep Method:</b> N/A		<b>Instrument:</b> ICP-THERMO2		
<b>Client ID:</b> HTA19-0212-2		<b>Prep Method:</b> 3005A		<b>Prep Date:</b> 02/16/2012 07:08		
<b>Matrix:</b> Water		<b>Analytical Method:</b> 6010B		<b>Cal Date:</b> 02/16/2012 08:38		
<b>Workgroup #:</b> WG389817		<b>Analyst:</b> KHR		<b>Run Date:</b> 02/16/2012 14:44		
<b>Collect Date:</b> 02/13/2012 10:40		<b>Dilution:</b> 1		<b>File ID:</b> T2.021612.144446		
<b>Sample Tag:</b> 01		<b>Units:</b> mg/L				
<b>Analyte</b>		<b>CAS #</b>	<b>Result</b>	<b>Qual</b>	<b>LOQ</b>	<b>LOD</b>
Iron, Total		7439-89-6		U	0.100	0.0500
Manganese, Total		7439-96-5		U	0.0100	0.00500
U	Analyte was not detected. The concentration is below the reported LOD.					

<b>Sample #:</b> L12020399-03	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> IC1			
<b>Client ID:</b> HTA19-0212-2	<b>Prep Method:</b> 300.0	<b>Prep Date:</b> 02/15/2012 18:06			
<b>Matrix:</b> Water	<b>Analytical Method:</b> 300.0	<b>Cal Date:</b> 02/10/2012 10:32			
<b>Workgroup #:</b> WG389618	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/15/2012 21:35			
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> I10215122135.46			
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L				
<b>Analyte</b>	<b>CAS #</b>	<b>Result</b>	<b>Qual</b>	<b>LOQ</b>	<b>LOD</b>
Fluoride	16984-48-8	4.05		0.200	0.100

## Certificate of Analysis

<b>Sample #:</b> L12020399-03	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> IC1
<b>Client ID:</b> HTA19-0212-2	<b>Prep Method:</b> 300.0	<b>Prep Date:</b> 02/15/2012 18:06
<b>Matrix:</b> Water	<b>Analytical Method:</b> 300.0	<b>Cal Date:</b> 02/10/2012 10:32
<b>Workgroup #:</b> WG389618	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/16/2012 12:48
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 5	<b>File ID:</b> I10216121248.76
<b>Sample Tag:</b> DL01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Chloride	16887-00-6	46.7		1.00	0.500
Sulfate	14808-79-8	168		5.00	2.50

<b>Sample #:</b> L12020399-03	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ORION-4STAR
<b>Client ID:</b> HTA19-0212-2	<b>Prep Method:</b> 9040C	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 9040C	<b>Cal Date:</b>
<b>Workgroup #:</b> WG389585	<b>Analyst:</b> DLP	<b>Run Date:</b> 02/14/2012 17:45
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> OS12021515241301
<b>Sample Tag:</b>	<b>Units:</b> UNITS	

Analyte	CAS #	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	7.44		0.000	0.000

<b>Sample #:</b> L12020399-03	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA19-0212-2	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:41
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.033
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )		194		20.0	10.0

<b>Sample #:</b> L12020399-03	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA19-0212-2	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:41
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.033
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Total (as CaCO <sub>3</sub> )		194		20.0	10.0

## Certificate of Analysis

<b>Sample #:</b> L12020399-03	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA19-0212-2	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:41
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.033
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Carbonate (as CaCO <sub>3</sub> )			U	20.0	10.0
U	Analyte was not detected. The concentration is below the reported LOD.				

<b>Sample #:</b> L12020399-03	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA19-0212-2	<b>Prep Method:</b> 353.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 353.2	<b>Cal Date:</b> 02/14/2012 11:13
<b>Workgroup #:</b> WG389640	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/15/2012 11:13
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 16	<b>File ID:</b> SC12021615510701
<b>Sample Tag:</b>	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Nitrate-Nitrite (as N)		23.3		0.800	0.400

<b>Sample #:</b> L12020399-04	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ICP-THERMO2
<b>Client ID:</b> HTA19-0212-2	<b>Prep Method:</b> 3005A	<b>Prep Date:</b> 02/16/2012 07:08
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6010B	<b>Cal Date:</b> 02/16/2012 08:38
<b>Workgroup #:</b> WG389817	<b>Analyst:</b> KHR	<b>Run Date:</b> 02/16/2012 14:48
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> T2.021612.144804
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Aluminum, Dissolved	7429-90-5		U	0.100	0.0500
Beryllium, Dissolved	7440-41-7		U	0.00200	0.00100
Iron, Dissolved	7439-89-6		U	0.100	0.0500
Manganese, Dissolved	7439-96-5		U	0.0100	0.00500
Potassium, Dissolved	7440-09-7	1.32		1.00	0.500
Sodium, Dissolved	7440-23-5	61.2		0.500	0.250
Tin, Dissolved	7440-31-5		U	0.500	0.250
Vanadium, Dissolved	7440-62-2		U	0.0100	0.00500
Zinc, Dissolved	7440-66-6		U	0.0200	0.0100
U	Analyte was not detected. The concentration is below the reported LOD.				

## Certificate of Analysis

<b>Sample #:</b> L12020399-04	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ICP-THERMO2
<b>Client ID:</b> HTA19-0212-2	<b>Prep Method:</b> 3005A	<b>Prep Date:</b> 02/16/2012 07:08
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6010B	<b>Cal Date:</b> 02/17/2012 09:11
<b>Workgroup #:</b> WG389817	<b>Analyst:</b> KHR	<b>Run Date:</b> 02/17/2012 09:37
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 10	<b>File ID:</b> T2.021712.093751
<b>Sample Tag:</b> DL01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Calcium, Dissolved	7440-70-2	109		2.00	1.00
Magnesium, Dissolved	7439-95-4	26.4		5.00	2.50

<b>Sample #:</b> L12020399-04	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ELAN-ICP
<b>Client ID:</b> HTA19-0212-2	<b>Prep Method:</b> 3015	<b>Prep Date:</b> 02/16/2012 10:00
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6020	<b>Cal Date:</b> 02/16/2012 16:04
<b>Workgroup #:</b> WG389782	<b>Analyst:</b> EDL	<b>Run Date:</b> 02/16/2012 20:58
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> EL.021612.205820
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Antimony, Dissolved	7440-36-0		U	0.00100	0.000500
Arsenic, Dissolved	7440-38-2		U	0.00100	0.000500
Barium, Dissolved	7440-39-3	0.0327		0.00300	0.00150
Cadmium, Dissolved	7440-43-9		U	0.000600	0.000300
Chromium, Dissolved	7440-47-3	0.00119	J	0.00200	0.00100
Cobalt, Dissolved	7440-48-4	0.000868	J	0.00100	0.000500
Copper, Dissolved	7440-50-8		U	0.00200	0.00100
Lead, Dissolved	7439-92-1		U	0.00100	0.000500
Nickel, Dissolved	7440-02-0	0.00373	J	0.00400	0.00200
Selenium, Dissolved	7782-49-2	0.00494		0.00100	0.000500
Silver, Dissolved	7440-22-4		U	0.00100	0.000500
Thallium, Dissolved	7440-28-0		U	0.000200	0.000100
J	Estimated value ; the analyte concentration was less than the LOQ.				
U	Analyte was not detected. The concentration is below the reported LOD.				

## Certificate of Analysis

<b>Sample #:</b> L12020399-04	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> HYDRA
<b>Client ID:</b> HTA19-0212-2	<b>Prep Method:</b> 7470A	<b>Prep Date:</b> 02/16/2012 07:13
<b>Matrix:</b> Water	<b>Analytical Method:</b> 7470A	<b>Cal Date:</b> 02/17/2012 13:00
<b>Workgroup #:</b> WG389917	<b>Analyst:</b> PDM	<b>Run Date:</b> 02/17/2012 13:23
<b>Collect Date:</b> 02/13/2012 10:40	<b>Dilution:</b> 1	<b>File ID:</b> HY.021712.132314
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Mercury, Dissolved	7439-97-6		U	0.000200	0.000100
U	Analyte was not detected. The concentration is below the reported LOD.				

<b>Sample #:</b> L12020399-05	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> LCMS1
<b>Client ID:</b> HTA16D-0212-1	<b>Prep Method:</b> 6850	<b>Prep Date:</b> 02/23/2012 13:15
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6850	<b>Cal Date:</b> 01/24/2012 17:25
<b>Workgroup #:</b> WG390462	<b>Analyst:</b> JWR	<b>Run Date:</b> 02/24/2012 16:57
<b>Collect Date:</b> 02/13/2012 12:00	<b>Dilution:</b> 10000	<b>File ID:</b> 1LM.LM15419
<b>Sample Tag:</b> DL01	<b>Units:</b> ug/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Perchlorate	14797-73-0	16000		2000	1000

<b>Sample #:</b> L12020399-05	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> HPLC4
<b>Client ID:</b> HTA16D-0212-1	<b>Prep Method:</b> METHOD	<b>Prep Date:</b> 02/15/2012 08:20
<b>Matrix:</b> Water	<b>Analytical Method:</b> 8330B	<b>Cal Date:</b> 02/15/2012 19:12
<b>Workgroup #:</b> WG389703	<b>Analyst:</b> ECL	<b>Run Date:</b> 02/21/2012 13:32
<b>Collect Date:</b> 02/13/2012 12:00	<b>Dilution:</b> 1	<b>File ID:</b> 4L023237.F
<b>Sample Tag:</b> CF01	<b>Units:</b> ug/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
RDX	121-82-4	19.3		1.06	0.266
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
1,2-Dinitrobenzene	82.3	50	150		

<b>Sample #:</b> L12020399-05	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> HPLC5
<b>Client ID:</b> HTA16D-0212-1	<b>Prep Method:</b> METHOD	<b>Prep Date:</b> 02/15/2012 08:20
<b>Matrix:</b> Water	<b>Analytical Method:</b> 8330B	<b>Cal Date:</b> 02/10/2011 16:32
<b>Workgroup #:</b> WG389703	<b>Analyst:</b> ECL	<b>Run Date:</b> 02/16/2012 19:05
<b>Collect Date:</b> 02/13/2012 12:00	<b>Dilution:</b> 1	<b>File ID:</b> 5L006488.F
<b>Sample Tag:</b> 01	<b>Units:</b> ug/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
1,3,5-Trinitrobenzene	99-35-4		U	1.06	0.266
1,3-Dinitrobenzene	99-65-0		U	1.06	0.266

## Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD
2,4,6-Trinitrotoluene	118-96-7		U	1.06	0.266
2,4-Dinitrotoluene	121-14-2		U	1.06	0.266
2,6-Dinitrotoluene	606-20-2		U	1.06	0.266
2-Amino-4,6-dinitrotoluene	35572-78-2		U	1.06	0.266
2-Nitrotoluene	88-72-2		U	1.06	0.266
3-Nitrotoluene	99-08-1		U	1.06	0.266
4-Nitrotoluene	99-99-0		U	1.06	0.266
4-Amino-2,6-dinitrotoluene	19406-51-0		U	1.06	0.266
HMX	2691-41-0		U	1.06	0.266
Nitrobenzene	98-95-3		U	1.06	0.266
RDX	121-82-4	19.1		1.06	0.266
Tetryl	479-45-8		U	1.06	0.266
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
1,2-Dinitrobenzene	80.0	50	150		
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12020399-05

PrePrep Method: N/A

Instrument: ICP-THERMO2

Client ID: HTA16D-0212-1

Prep Method: 3005A

Prep Date: 02/16/2012 07:08

Matrix: Water

Analytical Method: 6010B

Cal Date: 02/16/2012 08:38

Workgroup #: WG389817

Analyst: KHR

Run Date: 02/16/2012 14:51

Collect Date: 02/13/2012 12:00

Dilution: 1

File ID: T2.021612.145121

Sample Tag: 01

Units: mg/L

Analyte	CAS #	Result	Qual	LOQ	LOD
Iron, Total	7439-89-6	0.350		0.100	0.0500
Manganese, Total	7439-96-5	0.0248		0.0100	0.00500

Sample #: L12020399-05

PrePrep Method: N/A

Instrument: IC1

Client ID: HTA16D-0212-1

Prep Method: 300.0

Prep Date: 02/15/2012 18:06

Matrix: Water

Analytical Method: 300.0

Cal Date: 02/10/2012 10:32

Workgroup #: WG389618

Analyst: JBK

Run Date: 02/15/2012 21:52

Collect Date: 02/13/2012 12:00

Dilution: 1

File ID: I10215122152.47

Sample Tag: 01

Units: mg/L

Analyte	CAS #	Result	Qual	LOQ	LOD
Fluoride	16984-48-8	4.59		0.200	0.100

## Certificate of Analysis

<b>Sample #:</b> L12020399-05	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> IC1
<b>Client ID:</b> HTA16D-0212-1	<b>Prep Method:</b> 300.0	<b>Prep Date:</b> 02/15/2012 18:06
<b>Matrix:</b> Water	<b>Analytical Method:</b> 300.0	<b>Cal Date:</b> 02/10/2012 10:32
<b>Workgroup #:</b> WG389618	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/16/2012 13:06
<b>Collect Date:</b> 02/13/2012 12:00	<b>Dilution:</b> 5	<b>File ID:</b> I10216121306.77
<b>Sample Tag:</b> DL01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Chloride	16887-00-6	45.3		1.00	0.500
Sulfate	14808-79-8	167		5.00	2.50

<b>Sample #:</b> L12020399-05	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ORION-4STAR
<b>Client ID:</b> HTA16D-0212-1	<b>Prep Method:</b> 9040C	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 9040C	<b>Cal Date:</b>
<b>Workgroup #:</b> WG389585	<b>Analyst:</b> DLP	<b>Run Date:</b> 02/14/2012 17:46
<b>Collect Date:</b> 02/13/2012 12:00	<b>Dilution:</b> 1	<b>File ID:</b> OS12021515242001
<b>Sample Tag:</b>	<b>Units:</b> UNITS	

Analyte	CAS #	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	7.36		0.000	0.000

<b>Sample #:</b> L12020399-05	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA16D-0212-1	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:42
<b>Collect Date:</b> 02/13/2012 12:00	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.034
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )		219		20.0	10.0

<b>Sample #:</b> L12020399-05	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA16D-0212-1	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:42
<b>Collect Date:</b> 02/13/2012 12:00	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.034
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Total (as CaCO <sub>3</sub> )		219		20.0	10.0

## Certificate of Analysis

<b>Sample #:</b> L12020399-05	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA16D-0212-1	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:42
<b>Collect Date:</b> 02/13/2012 12:00	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.034
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Carbonate (as CaCO <sub>3</sub> )			U	20.0	10.0
U	Analyte was not detected. The concentration is below the reported LOD.				

<b>Sample #:</b> L12020399-05	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA16D-0212-1	<b>Prep Method:</b> 353.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 353.2	<b>Cal Date:</b> 02/14/2012 11:13
<b>Workgroup #:</b> WG389640	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/15/2012 11:13
<b>Collect Date:</b> 02/13/2012 12:00	<b>Dilution:</b> 16	<b>File ID:</b> SC12021615511501
<b>Sample Tag:</b>	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Nitrate-Nitrite (as N)		22.7		0.800	0.400

<b>Sample #:</b> L12020399-06	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ICP-THERMO2
<b>Client ID:</b> HTA16D-0212-1	<b>Prep Method:</b> 3005A	<b>Prep Date:</b> 02/16/2012 07:08
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6010B	<b>Cal Date:</b> 02/16/2012 08:38
<b>Workgroup #:</b> WG389817	<b>Analyst:</b> KHR	<b>Run Date:</b> 02/16/2012 15:07
<b>Collect Date:</b> 02/13/2012 12:00	<b>Dilution:</b> 1	<b>File ID:</b> T2.021612.150750
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Aluminum, Dissolved	7429-90-5		U	0.100	0.0500
Beryllium, Dissolved	7440-41-7		U	0.00200	0.00100
Iron, Dissolved	7439-89-6		U	0.100	0.0500
Manganese, Dissolved	7439-96-5		U	0.0100	0.00500
Potassium, Dissolved	7440-09-7	1.25		1.00	0.500
Sodium, Dissolved	7440-23-5	63.3		0.500	0.250
Tin, Dissolved	7440-31-5		U	0.500	0.250
Vanadium, Dissolved	7440-62-2		U	0.0100	0.00500
Zinc, Dissolved	7440-66-6		U	0.0200	0.0100
U	Analyte was not detected. The concentration is below the reported LOD.				

## Certificate of Analysis

<b>Sample #:</b> L12020399-06	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ICP-THERMO2
<b>Client ID:</b> HTA16D-0212-1	<b>Prep Method:</b> 3005A	<b>Prep Date:</b> 02/16/2012 07:08
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6010B	<b>Cal Date:</b> 02/17/2012 09:11
<b>Workgroup #:</b> WG389817	<b>Analyst:</b> KHR	<b>Run Date:</b> 02/17/2012 09:41
<b>Collect Date:</b> 02/13/2012 12:00	<b>Dilution:</b> 10	<b>File ID:</b> T2.021712.094110
<b>Sample Tag:</b> DL01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Calcium, Dissolved	7440-70-2	110		2.00	1.00
Magnesium, Dissolved	7439-95-4	27.1		5.00	2.50

<b>Sample #:</b> L12020399-06	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ELAN-ICP
<b>Client ID:</b> HTA16D-0212-1	<b>Prep Method:</b> 3015	<b>Prep Date:</b> 02/16/2012 10:00
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6020	<b>Cal Date:</b> 02/16/2012 16:04
<b>Workgroup #:</b> WG389782	<b>Analyst:</b> EDL	<b>Run Date:</b> 02/16/2012 21:06
<b>Collect Date:</b> 02/13/2012 12:00	<b>Dilution:</b> 1	<b>File ID:</b> EL.021612.210607
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Antimony, Dissolved	7440-36-0		U	0.00100	0.000500
Arsenic, Dissolved	7440-38-2		U	0.00100	0.000500
Barium, Dissolved	7440-39-3	0.0358		0.00300	0.00150
Cadmium, Dissolved	7440-43-9		U	0.000600	0.000300
Chromium, Dissolved	7440-47-3	0.00118	J	0.00200	0.00100
Cobalt, Dissolved	7440-48-4	0.00194		0.00100	0.000500
Copper, Dissolved	7440-50-8		U	0.00200	0.00100
Lead, Dissolved	7439-92-1		U	0.00100	0.000500
Nickel, Dissolved	7440-02-0	0.00411		0.00400	0.00200
Selenium, Dissolved	7782-49-2	0.00281		0.00100	0.000500
Silver, Dissolved	7440-22-4		U	0.00100	0.000500
Thallium, Dissolved	7440-28-0		U	0.000200	0.000100
J	Estimated value ; the analyte concentration was less than the LOQ.				
U	Analyte was not detected. The concentration is below the reported LOD.				

## Certificate of Analysis

<b>Sample #:</b> L12020399-06	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> HYDRA
<b>Client ID:</b> HTA16D-0212-1	<b>Prep Method:</b> 7470A	<b>Prep Date:</b> 02/16/2012 07:13
<b>Matrix:</b> Water	<b>Analytical Method:</b> 7470A	<b>Cal Date:</b> 02/17/2012 13:00
<b>Workgroup #:</b> WG389917	<b>Analyst:</b> PDM	<b>Run Date:</b> 02/17/2012 13:24
<b>Collect Date:</b> 02/13/2012 12:00	<b>Dilution:</b> 1	<b>File ID:</b> HY.021712.132456
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Mercury, Dissolved	7439-97-6		U	0.000200	0.000100
U	Analyte was not detected. The concentration is below the reported LOD.				

<b>Sample #:</b> L12020399-07	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> LCMS1
<b>Client ID:</b> HTA16-0212-1	<b>Prep Method:</b> 6850	<b>Prep Date:</b> 02/23/2012 13:15
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6850	<b>Cal Date:</b> 01/24/2012 17:25
<b>Workgroup #:</b> WG390462	<b>Analyst:</b> JWR	<b>Run Date:</b> 02/24/2012 17:16
<b>Collect Date:</b> 02/13/2012 13:05	<b>Dilution:</b> 10000	<b>File ID:</b> 1LM.LM15420
<b>Sample Tag:</b> DL01	<b>Units:</b> ug/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Perchlorate	14797-73-0	14500		2000	1000

<b>Sample #:</b> L12020399-07	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> HPLC4
<b>Client ID:</b> HTA16-0212-1	<b>Prep Method:</b> METHOD	<b>Prep Date:</b> 02/15/2012 08:20
<b>Matrix:</b> Water	<b>Analytical Method:</b> 8330B	<b>Cal Date:</b> 02/15/2012 19:12
<b>Workgroup #:</b> WG389703	<b>Analyst:</b> ECL	<b>Run Date:</b> 02/21/2012 14:25
<b>Collect Date:</b> 02/13/2012 13:05	<b>Dilution:</b> 1	<b>File ID:</b> 4L023238.F
<b>Sample Tag:</b> CF01	<b>Units:</b> ug/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
HMX	2691-41-0	0.291	J	1.09	0.272
RDX	121-82-4	21.9		1.09	0.272

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dinitrobenzene	93.0	50	150	
J	Estimated value ; the analyte concentration was less than the LOQ.			

## Certificate of Analysis

Sample #: L12020399-07

PrePrep Method: N/A

Instrument: HPLC5

Client ID: HTA16-0212-1

Prep Method: METHOD

Prep Date: 02/15/2012 08:20

Matrix: Water

Analytical Method: 8330B

Cal Date: 02/10/2011 16:32

Workgroup #: WG389703

Analyst: ECL

Run Date: 02/16/2012 19:44

Collect Date: 02/13/2012 13:05

Dilution: 1

File ID: 5L006489.F

Sample Tag: 01

Units: ug/L

Analyte	CAS #	Result	Qual	LOQ	LOD
1,3,5-Trinitrobenzene	99-35-4		U	1.09	0.272
1,3-Dinitrobenzene	99-65-0		U	1.09	0.272
2,4,6-Trinitrotoluene	118-96-7		U	1.09	0.272
2,4-Dinitrotoluene	121-14-2		U	1.09	0.272
2,6-Dinitrotoluene	606-20-2		U	1.09	0.272
2-Amino-4,6-dinitrotoluene	35572-78-2		U	1.09	0.272
2-Nitrotoluene	88-72-2		U	1.09	0.272
3-Nitrotoluene	99-08-1		U	1.09	0.272
4-Nitrotoluene	99-99-0		U	1.09	0.272
4-Amino-2,6-dinitrotoluene	19406-51-0		U	1.09	0.272
HMX	2691-41-0	0.351	J	1.09	0.272
Nitrobenzene	98-95-3		U	1.09	0.272
RDX	121-82-4	21.8		1.09	0.272
Tetryl	479-45-8		U	1.09	0.272
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
1,2-Dinitrobenzene	88.3	50	150		
J	Estimated value ; the analyte concentration was less than the LOQ.				
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12020399-07

PrePrep Method: N/A

Instrument: ICP-THERMO2

Client ID: HTA16-0212-1

Prep Method: 3005A

Prep Date: 02/16/2012 07:08

Matrix: Water

Analytical Method: 6010B

Cal Date: 02/16/2012 08:38

Workgroup #: WG389817

Analyst: KHR

Run Date: 02/16/2012 15:11

Collect Date: 02/13/2012 13:05

Dilution: 1

File ID: T2.021612.151107

Sample Tag: 01

Units: mg/L

Analyte	CAS #	Result	Qual	LOQ	LOD
Iron, Total	7439-89-6		U	0.100	0.0500
Manganese, Total	7439-96-5	0.192		0.0100	0.00500
U	Analyte was not detected. The concentration is below the reported LOD.				

## Certificate of Analysis

<b>Sample #:</b> L12020399-07	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> IC1
<b>Client ID:</b> HTA16-0212-1	<b>Prep Method:</b> 300.0	<b>Prep Date:</b> 02/15/2012 18:06
<b>Matrix:</b> Water	<b>Analytical Method:</b> 300.0	<b>Cal Date:</b> 02/10/2012 10:32
<b>Workgroup #:</b> WG389618	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/15/2012 22:10
<b>Collect Date:</b> 02/13/2012 13:05	<b>Dilution:</b> 1	<b>File ID:</b> I10215122210.48
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Fluoride	16984-48-8	2.52		0.200	0.100

<b>Sample #:</b> L12020399-07	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> IC1
<b>Client ID:</b> HTA16-0212-1	<b>Prep Method:</b> 300.0	<b>Prep Date:</b> 02/15/2012 18:06
<b>Matrix:</b> Water	<b>Analytical Method:</b> 300.0	<b>Cal Date:</b> 02/10/2012 10:32
<b>Workgroup #:</b> WG389618	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/16/2012 13:23
<b>Collect Date:</b> 02/13/2012 13:05	<b>Dilution:</b> 5	<b>File ID:</b> I10216121323.78
<b>Sample Tag:</b> DL01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Chloride	16887-00-6	48.8		1.00	0.500
Sulfate	14808-79-8	165		5.00	2.50

<b>Sample #:</b> L12020399-07	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ORION-4STAR
<b>Client ID:</b> HTA16-0212-1	<b>Prep Method:</b> 9040C	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 9040C	<b>Cal Date:</b>
<b>Workgroup #:</b> WG389585	<b>Analyst:</b> DLP	<b>Run Date:</b> 02/14/2012 17:47
<b>Collect Date:</b> 02/13/2012 13:05	<b>Dilution:</b> 1	<b>File ID:</b> OS12021515242801
<b>Sample Tag:</b>	<b>Units:</b> UNITS	

Analyte	CAS #	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	7.42		0.000	0.000

<b>Sample #:</b> L12020399-07	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA16-0212-1	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:42
<b>Collect Date:</b> 02/13/2012 13:05	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.035
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Carbonate (as CaCO3)			U	20.0	10.0

U	Analyte was not detected. The concentration is below the reported LOD.				
---	--	--	--	--	--

## Certificate of Analysis

<b>Sample #:</b> L12020399-07	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA16-0212-1	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:42
<b>Collect Date:</b> 02/13/2012 13:05	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.035
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Total (as CaCO3)		221		20.0	10.0

<b>Sample #:</b> L12020399-07	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA16-0212-1	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:42
<b>Collect Date:</b> 02/13/2012 13:05	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.035
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Bicarbonate (as CaCO3)		221		20.0	10.0

<b>Sample #:</b> L12020399-07	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA16-0212-1	<b>Prep Method:</b> 353.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 353.2	<b>Cal Date:</b> 02/14/2012 11:13
<b>Workgroup #:</b> WG389640	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/15/2012 11:13
<b>Collect Date:</b> 02/13/2012 13:05	<b>Dilution:</b> 8	<b>File ID:</b> SC12021615512501
<b>Sample Tag:</b>	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Nitrate-Nitrite (as N)		10.1		0.400	0.200

<b>Sample #:</b> L12020399-08	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ICP-THERMO2
<b>Client ID:</b> HTA16-0212-1	<b>Prep Method:</b> 3005A	<b>Prep Date:</b> 02/16/2012 07:08
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6010B	<b>Cal Date:</b> 02/16/2012 08:38
<b>Workgroup #:</b> WG389817	<b>Analyst:</b> KHR	<b>Run Date:</b> 02/16/2012 15:14
<b>Collect Date:</b> 02/13/2012 13:05	<b>Dilution:</b> 1	<b>File ID:</b> T2.021612.151423
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Aluminum, Dissolved	7429-90-5		U	0.100	0.0500
Beryllium, Dissolved	7440-41-7		U	0.00200	0.00100
Iron, Dissolved	7439-89-6		U	0.100	0.0500
Manganese, Dissolved	7439-96-5	0.0442		0.0100	0.00500
Potassium, Dissolved	7440-09-7	0.865	J	1.00	0.500

## Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD
Sodium, Dissolved	7440-23-5	70.4		0.500	0.250
Tin, Dissolved	7440-31-5		U	0.500	0.250
Vanadium, Dissolved	7440-62-2		U	0.0100	0.00500
Zinc, Dissolved	7440-66-6		U	0.0200	0.0100
J	Estimated value ; the analyte concentration was less than the LOQ.				
U	Analyte was not detected. The concentration is below the reported LOD.				

<b>Sample #:</b> L12020399-08	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ICP-THERMO2
<b>Client ID:</b> HTA16-0212-1	<b>Prep Method:</b> 3005A	<b>Prep Date:</b> 02/16/2012 07:08
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6010B	<b>Cal Date:</b> 02/17/2012 09:11
<b>Workgroup #:</b> WG389817	<b>Analyst:</b> KHR	<b>Run Date:</b> 02/17/2012 09:44
<b>Collect Date:</b> 02/13/2012 13:05	<b>Dilution:</b> 10	<b>File ID:</b> T2.021712.094429
<b>Sample Tag:</b> DL01	<b>Units:</b> mg/L	

  

Analyte	CAS #	Result	Qual	LOQ	LOD
Calcium, Dissolved	7440-70-2	107		2.00	1.00
Magnesium, Dissolved	7439-95-4	25.4		5.00	2.50

<b>Sample #:</b> L12020399-08	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ELAN-ICP
<b>Client ID:</b> HTA16-0212-1	<b>Prep Method:</b> 3015	<b>Prep Date:</b> 02/16/2012 10:00
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6020	<b>Cal Date:</b> 02/16/2012 16:04
<b>Workgroup #:</b> WG389782	<b>Analyst:</b> EDL	<b>Run Date:</b> 02/16/2012 21:13
<b>Collect Date:</b> 02/13/2012 13:05	<b>Dilution:</b> 1	<b>File ID:</b> EL.021612.211354
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

  

Analyte	CAS #	Result	Qual	LOQ	LOD
Antimony, Dissolved	7440-36-0		U	0.00100	0.000500
Arsenic, Dissolved	7440-38-2	0.000551	J	0.00100	0.000500
Barium, Dissolved	7440-39-3	0.0440		0.00300	0.00150
Cadmium, Dissolved	7440-43-9	0.0127		0.000600	0.000300
Chromium, Dissolved	7440-47-3	0.00111	J	0.00200	0.00100
Cobalt, Dissolved	7440-48-4	0.00166		0.00100	0.000500
Copper, Dissolved	7440-50-8		U	0.00200	0.00100
Lead, Dissolved	7439-92-1		U	0.00100	0.000500
Nickel, Dissolved	7440-02-0	0.00396	J	0.00400	0.00200
Selenium, Dissolved	7782-49-2	0.00351		0.00100	0.000500
Silver, Dissolved	7440-22-4		U	0.00100	0.000500
Thallium, Dissolved	7440-28-0		U	0.000200	0.000100
J	Estimated value ; the analyte concentration was less than the LOQ.				
U	Analyte was not detected. The concentration is below the reported LOD.				

## Certificate of Analysis

<b>Sample #:</b> L12020399-08	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> HYDRA
<b>Client ID:</b> HTA16-0212-1	<b>Prep Method:</b> 7470A	<b>Prep Date:</b> 02/16/2012 07:13
<b>Matrix:</b> Water	<b>Analytical Method:</b> 7470A	<b>Cal Date:</b> 02/17/2012 13:00
<b>Workgroup #:</b> WG389917	<b>Analyst:</b> PDM	<b>Run Date:</b> 02/17/2012 13:26
<b>Collect Date:</b> 02/13/2012 13:05	<b>Dilution:</b> 1	<b>File ID:</b> HY.021712.132651
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Mercury, Dissolved	7439-97-6		U	0.000200	0.000100
U	Analyte was not detected. The concentration is below the reported LOD.				

<b>Sample #:</b> L12020399-09	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> LCMS1
<b>Client ID:</b> HTA17-0212-1	<b>Prep Method:</b> 6850	<b>Prep Date:</b> 02/23/2012 13:15
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6850	<b>Cal Date:</b> 01/24/2012 17:25
<b>Workgroup #:</b> WG390462	<b>Analyst:</b> JWR	<b>Run Date:</b> 02/24/2012 17:35
<b>Collect Date:</b> 02/13/2012 14:20	<b>Dilution:</b> 10000	<b>File ID:</b> 1LM.LM15421
<b>Sample Tag:</b> DL01	<b>Units:</b> ug/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Perchlorate	14797-73-0	15400		2000	1000

<b>Sample #:</b> L12020399-09	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> HPLC5
<b>Client ID:</b> HTA17-0212-1	<b>Prep Method:</b> METHOD	<b>Prep Date:</b> 02/15/2012 08:20
<b>Matrix:</b> Water	<b>Analytical Method:</b> 8330B	<b>Cal Date:</b> 02/10/2011 16:32
<b>Workgroup #:</b> WG389703	<b>Analyst:</b> ECL	<b>Run Date:</b> 02/16/2012 20:23
<b>Collect Date:</b> 02/13/2012 14:20	<b>Dilution:</b> 1	<b>File ID:</b> 5L006490.F
<b>Sample Tag:</b> 01	<b>Units:</b> ug/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
1,3,5-Trinitrobenzene	99-35-4		U	1.09	0.272
1,3-Dinitrobenzene	99-65-0		U	1.09	0.272
2,4,6-Trinitrotoluene	118-96-7		U	1.09	0.272
2,4-Dinitrotoluene	121-14-2		U	1.09	0.272
2,6-Dinitrotoluene	606-20-2		U	1.09	0.272
2-Amino-4,6-dinitrotoluene	35572-78-2		U	1.09	0.272
2-Nitrotoluene	88-72-2		U	1.09	0.272
3-Nitrotoluene	99-08-1		U	1.09	0.272
4-Nitrotoluene	99-99-0		U	1.09	0.272
4-Amino-2,6-dinitrotoluene	19406-51-0		U	1.09	0.272
HMX	2691-41-0		U	1.09	0.272
Nitrobenzene	98-95-3		U	1.09	0.272

## Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD
Tetryl	479-45-8		U	1.09	0.272
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
1,2-Dinitrobenzene	88.1	50	150		
U	Analyte was not detected. The concentration is below the reported LOD.				

**Sample #:** L12020399-09      **PrePrep Method:** N/A      **Instrument:** HPLC5  
**Client ID:** HTA17-0212-1      **Prep Method:** METHOD      **Prep Date:** 02/15/2012 08:20  
**Matrix:** Water      **Analytical Method:** 8330B      **Cal Date:** 02/10/2011 16:32  
**Workgroup #:** WG389703      **Analyst:** ECL      **Run Date:** 02/20/2012 17:57  
**Collect Date:** 02/13/2012 14:20      **Dilution:** 5      **File ID:** 5L006528.F  
**Sample Tag:** DL01      **Units:** ug/L

Analyte	CAS #	Result	Qual	LOQ	LOD
RDX	121-82-4	33.0		5.43	1.36
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
1,2-Dinitrobenzene	88.1	50	150		

**Sample #:** L12020399-09      **PrePrep Method:** N/A      **Instrument:** HPLC4  
**Client ID:** HTA17-0212-1      **Prep Method:** METHOD      **Prep Date:** 02/15/2012 08:20  
**Matrix:** Water      **Analytical Method:** 8330B      **Cal Date:** 02/15/2012 19:12  
**Workgroup #:** WG389703      **Analyst:** ECL      **Run Date:** 02/21/2012 16:11  
**Collect Date:** 02/13/2012 14:20      **Dilution:** 5      **File ID:** 4L023240.F  
**Sample Tag:** CFDL1      **Units:** ug/L

Analyte	CAS #	Result	Qual	LOQ	LOD
RDX	121-82-4	33.7		5.43	1.36
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
1,2-Dinitrobenzene	91.7	50	150		

**Sample #:** L12020399-09      **PrePrep Method:** N/A      **Instrument:** ICP-THERMO2  
**Client ID:** HTA17-0212-1      **Prep Method:** 3005A      **Prep Date:** 02/16/2012 07:08  
**Matrix:** Water      **Analytical Method:** 6010B      **Cal Date:** 02/16/2012 08:38  
**Workgroup #:** WG389817      **Analyst:** KHR      **Run Date:** 02/16/2012 15:17  
**Collect Date:** 02/13/2012 14:20      **Dilution:** 1      **File ID:** T2.021612.151739  
**Sample Tag:** 01      **Units:** mg/L

Analyte	CAS #	Result	Qual	LOQ	LOD
Iron, Total	7439-89-6		U	0.100	0.0500
Manganese, Total	7439-96-5		U	0.0100	0.00500
U	Analyte was not detected. The concentration is below the reported LOD.				

## Certificate of Analysis

<b>Sample #:</b> L12020399-09	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> IC1
<b>Client ID:</b> HTA17-0212-1	<b>Prep Method:</b> 300.0	<b>Prep Date:</b> 02/15/2012 18:06
<b>Matrix:</b> Water	<b>Analytical Method:</b> 300.0	<b>Cal Date:</b> 02/10/2012 10:32
<b>Workgroup #:</b> WG389618	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/15/2012 22:27
<b>Collect Date:</b> 02/13/2012 14:20	<b>Dilution:</b> 1	<b>File ID:</b> I10215122227.49
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Fluoride	16984-48-8	4.18		0.200	0.100

<b>Sample #:</b> L12020399-09	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> IC1
<b>Client ID:</b> HTA17-0212-1	<b>Prep Method:</b> 300.0	<b>Prep Date:</b> 02/15/2012 18:06
<b>Matrix:</b> Water	<b>Analytical Method:</b> 300.0	<b>Cal Date:</b> 02/10/2012 10:32
<b>Workgroup #:</b> WG389618	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/16/2012 13:40
<b>Collect Date:</b> 02/13/2012 14:20	<b>Dilution:</b> 5	<b>File ID:</b> I10216121340.79
<b>Sample Tag:</b> DL01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Chloride	16887-00-6	49.7		1.00	0.500
Sulfate	14808-79-8	168		5.00	2.50

<b>Sample #:</b> L12020399-09	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ORION-4STAR
<b>Client ID:</b> HTA17-0212-1	<b>Prep Method:</b> 9040C	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 9040C	<b>Cal Date:</b>
<b>Workgroup #:</b> WG389585	<b>Analyst:</b> DLP	<b>Run Date:</b> 02/14/2012 17:48
<b>Collect Date:</b> 02/13/2012 14:20	<b>Dilution:</b> 1	<b>File ID:</b> OS12021515243501
<b>Sample Tag:</b>	<b>Units:</b> UNITS	

Analyte	CAS #	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	7.37		0.000	0.000

<b>Sample #:</b> L12020399-09	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA17-0212-1	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:43
<b>Collect Date:</b> 02/13/2012 14:20	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.036
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Carbonate (as CaCO3)			U	20.0	10.0

U	Analyte was not detected. The concentration is below the reported LOD.				
---	--	--	--	--	--

## Certificate of Analysis

Sample #: L12020399-09		PrePrep Method: N/A		Instrument: SMARTCHEM		
Client ID: HTA17-0212-1		Prep Method: 310.2		Prep Date: N/A		
Matrix: Water		Analytical Method: 310.2		Cal Date: 02/16/2012 10:26		
Workgroup #: WG389747		Analyst: DIH		Run Date: 02/16/2012 10:43		
Collect Date: 02/13/2012 14:20		Dilution: 1		File ID: SC120216003.036		
Sample Tag: 01		Units: mg/L				
Analyte		CAS #	Result	Qual	LOQ	LOD
Alkalinity, Total (as CaCO3)			224		20.0	10.0

Sample #: L12020399-09		PrePrep Method: N/A		Instrument: SMARTCHEM		
Client ID: HTA17-0212-1		Prep Method: 310.2		Prep Date: N/A		
Matrix: Water		Analytical Method: 310.2		Cal Date: 02/16/2012 10:26		
Workgroup #: WG389747		Analyst: DIH		Run Date: 02/16/2012 10:43		
Collect Date: 02/13/2012 14:20		Dilution: 1		File ID: SC120216003.036		
Sample Tag: 01		Units: mg/L				
Analyte		CAS #	Result	Qual	LOQ	LOD
Alkalinity, Bicarbonate (as CaCO3)			224		20.0	10.0

Sample #: L12020399-09		PrePrep Method: N/A		Instrument: SMARTCHEM		
Client ID: HTA17-0212-1		Prep Method: 353.2		Prep Date: N/A		
Matrix: Water		Analytical Method: 353.2		Cal Date: 02/14/2012 11:13		
Workgroup #: WG389640		Analyst: JBK		Run Date: 02/15/2012 11:13		
Collect Date: 02/13/2012 14:20		Dilution: 8		File ID: SC12021615513501		
Sample Tag:		Units: mg/L				
Analyte		CAS #	Result	Qual	LOQ	LOD
Nitrate-Nitrite (as N)			10.9		0.400	0.200

<b>Sample #:</b> L12020399-10	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ICP-THERMO2
<b>Client ID:</b> HTA17-0212-1	<b>Prep Method:</b> 3005A	<b>Prep Date:</b> 02/16/2012 07:08
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6010B	<b>Cal Date:</b> 02/16/2012 08:38
<b>Workgroup #:</b> WG389817	<b>Analyst:</b> KHR	<b>Run Date:</b> 02/16/2012 15:20
<b>Collect Date:</b> 02/13/2012 14:20	<b>Dilution:</b> 1	<b>File ID:</b> T2.021612.152056
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Aluminum, Dissolved	7429-90-5		U	0.100	0.0500
Beryllium, Dissolved	7440-41-7		U	0.00200	0.00100
Iron, Dissolved	7439-89-6		U	0.100	0.0500
Manganese, Dissolved	7439-96-5		U	0.0100	0.00500
Potassium, Dissolved	7440-09-7	1.04		1.00	0.500

## Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD
Sodium, Dissolved	7440-23-5	61.9		0.500	0.250
Tin, Dissolved	7440-31-5		U	0.500	0.250
Vanadium, Dissolved	7440-62-2		U	0.0100	0.00500
Zinc, Dissolved	7440-66-6		U	0.0200	0.0100
U	Analyte was not detected. The concentration is below the reported LOD.				

<b>Sample #:</b> L12020399-10	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ICP-THERMO2
<b>Client ID:</b> HTA17-0212-1	<b>Prep Method:</b> 3005A	<b>Prep Date:</b> 02/16/2012 07:08
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6010B	<b>Cal Date:</b> 02/17/2012 09:11
<b>Workgroup #:</b> WG389817	<b>Analyst:</b> KHR	<b>Run Date:</b> 02/17/2012 09:47
<b>Collect Date:</b> 02/13/2012 14:20	<b>Dilution:</b> 10	<b>File ID:</b> T2.021712.094746
<b>Sample Tag:</b> DL01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Calcium, Dissolved	7440-70-2	111		2.00	1.00
Magnesium, Dissolved	7439-95-4	27.5		5.00	2.50

<b>Sample #:</b> L12020399-10	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ELAN-ICP
<b>Client ID:</b> HTA17-0212-1	<b>Prep Method:</b> 3015	<b>Prep Date:</b> 02/16/2012 10:00
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6020	<b>Cal Date:</b> 02/16/2012 16:04
<b>Workgroup #:</b> WG389782	<b>Analyst:</b> EDL	<b>Run Date:</b> 02/16/2012 21:52
<b>Collect Date:</b> 02/13/2012 14:20	<b>Dilution:</b> 1	<b>File ID:</b> EL.021612.215231
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Antimony, Dissolved	7440-36-0		U	0.00100	0.000500
Arsenic, Dissolved	7440-38-2		U	0.00100	0.000500
Barium, Dissolved	7440-39-3	0.0349		0.00300	0.00150
Cadmium, Dissolved	7440-43-9		U	0.000600	0.000300
Chromium, Dissolved	7440-47-3		U	0.00200	0.00100
Cobalt, Dissolved	7440-48-4	0.00157		0.00100	0.000500
Copper, Dissolved	7440-50-8		U	0.00200	0.00100
Lead, Dissolved	7439-92-1		U	0.00100	0.000500
Nickel, Dissolved	7440-02-0	0.00370	J	0.00400	0.00200
Selenium, Dissolved	7782-49-2	0.00332		0.00100	0.000500
Silver, Dissolved	7440-22-4		U	0.00100	0.000500
Thallium, Dissolved	7440-28-0		U	0.000200	0.000100
J	Estimated value ; the analyte concentration was less than the LOQ.				
U	Analyte was not detected. The concentration is below the reported LOD.				

## Certificate of Analysis

<b>Sample #:</b> L12020399-10	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> HYDRA
<b>Client ID:</b> HTA17-0212-1	<b>Prep Method:</b> 7470A	<b>Prep Date:</b> 02/16/2012 07:13
<b>Matrix:</b> Water	<b>Analytical Method:</b> 7470A	<b>Cal Date:</b> 02/17/2012 13:00
<b>Workgroup #:</b> WG389917	<b>Analyst:</b> PDM	<b>Run Date:</b> 02/17/2012 13:28
<b>Collect Date:</b> 02/13/2012 14:20	<b>Dilution:</b> 1	<b>File ID:</b> HY.021712.132844
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Mercury, Dissolved	7439-97-6		U	0.000200	0.000100
U	Analyte was not detected. The concentration is below the reported LOD.				

<b>Sample #:</b> L12020399-11	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> LCMS1
<b>Client ID:</b> HTA15-0212-1	<b>Prep Method:</b> 6850	<b>Prep Date:</b> 02/23/2012 13:15
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6850	<b>Cal Date:</b> 01/24/2012 17:25
<b>Workgroup #:</b> WG390462	<b>Analyst:</b> JWR	<b>Run Date:</b> 02/24/2012 17:54
<b>Collect Date:</b> 02/13/2012 15:35	<b>Dilution:</b> 10000	<b>File ID:</b> 1LM.LM15422
<b>Sample Tag:</b> DL01	<b>Units:</b> ug/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Perchlorate	14797-73-0	16800		2000	1000

<b>Sample #:</b> L12020399-11	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> HPLC4
<b>Client ID:</b> HTA15-0212-1	<b>Prep Method:</b> METHOD	<b>Prep Date:</b> 02/15/2012 08:20
<b>Matrix:</b> Water	<b>Analytical Method:</b> 8330B	<b>Cal Date:</b> 02/15/2012 19:12
<b>Workgroup #:</b> WG389703	<b>Analyst:</b> ECL	<b>Run Date:</b> 02/21/2012 17:04
<b>Collect Date:</b> 02/13/2012 15:35	<b>Dilution:</b> 1	<b>File ID:</b> 4L023241.F
<b>Sample Tag:</b> CF1	<b>Units:</b> ug/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
RDX	121-82-4	19.9		1.08	0.269

Surrogate	Recovery	Lower Limit	Upper Limit	Q
1,2-Dinitrobenzene	94.3	50	150	

<b>Sample #:</b> L12020399-11	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> HPLC5
<b>Client ID:</b> HTA15-0212-1	<b>Prep Method:</b> METHOD	<b>Prep Date:</b> 02/15/2012 08:20
<b>Matrix:</b> Water	<b>Analytical Method:</b> 8330B	<b>Cal Date:</b> 02/10/2011 16:32
<b>Workgroup #:</b> WG389703	<b>Analyst:</b> ECL	<b>Run Date:</b> 02/16/2012 21:02
<b>Collect Date:</b> 02/13/2012 15:35	<b>Dilution:</b> 1	<b>File ID:</b> 5L006491.F
<b>Sample Tag:</b> 01	<b>Units:</b> ug/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
1,3,5-Trinitrobenzene	99-35-4		U	1.08	0.269
1,3-Dinitrobenzene	99-65-0		U	1.08	0.269

## Certificate of Analysis

Analyte	CAS #	Result	Qual	LOQ	LOD
2,4,6-Trinitrotoluene	118-96-7		U	1.08	0.269
2,4-Dinitrotoluene	121-14-2		U	1.08	0.269
2,6-Dinitrotoluene	606-20-2		U	1.08	0.269
2-Amino-4,6-dinitrotoluene	35572-78-2		U	1.08	0.269
2-Nitrotoluene	88-72-2		U	1.08	0.269
3-Nitrotoluene	99-08-1		U	1.08	0.269
4-Nitrotoluene	99-99-0		U	1.08	0.269
4-Amino-2,6-dinitrotoluene	19406-51-0		U	1.08	0.269
HMX	2691-41-0		U	1.08	0.269
Nitrobenzene	98-95-3		U	1.08	0.269
RDX	121-82-4	19.5		1.08	0.269
Tetryl	479-45-8		U	1.08	0.269
Surrogate	Recovery	Lower Limit	Upper Limit	Q	
1,2-Dinitrobenzene	89.0	50	150		
U	Analyte was not detected. The concentration is below the reported LOD.				

Sample #: L12020399-11		PrePrep Method: N/A		Instrument: ICP-THERMO2		
Client ID: HTA15-0212-1		Prep Method: 3005A		Prep Date: 02/16/2012 07:08		
Matrix: Water		Analytical Method: 6010B		Cal Date: 02/16/2012 08:38		
Workgroup #: WG389817		Analyst: KHR		Run Date: 02/16/2012 15:24		
Collect Date: 02/13/2012 15:35		Dilution: 1		File ID: T2.021612.152413		
Sample Tag: 01		Units: mg/L				
Analyte		CAS #	Result	Qual	LOQ	LOD
Iron, Total		7439-89-6		U	0.100	0.0500
Manganese, Total		7439-96-5		U	0.0100	0.00500
U	Analyte was not detected. The concentration is below the reported LOD.					

Sample #: L12020399-11		PrePrep Method: N/A		Instrument: IC1		
Client ID: HTA15-0212-1		Prep Method: 300.0		Prep Date: 02/15/2012 18:06		
Matrix: Water		Analytical Method: 300.0		Cal Date: 02/10/2012 10:32		
Workgroup #: WG389618		Analyst: JBK		Run Date: 02/15/2012 23:37		
Collect Date: 02/13/2012 15:35		Dilution: 1		File ID: I10215122337.53		
Sample Tag: 01		Units: mg/L				
Analyte		CAS #	Result	Qual	LOQ	LOD
Fluoride		16984-48-8	4.60		0.200	0.100

## Certificate of Analysis

<b>Sample #:</b> L12020399-11	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> IC1
<b>Client ID:</b> HTA15-0212-1	<b>Prep Method:</b> 300.0	<b>Prep Date:</b> 02/15/2012 18:06
<b>Matrix:</b> Water	<b>Analytical Method:</b> 300.0	<b>Cal Date:</b> 02/10/2012 10:32
<b>Workgroup #:</b> WG389618	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/16/2012 13:58
<b>Collect Date:</b> 02/13/2012 15:35	<b>Dilution:</b> 5	<b>File ID:</b> I10216121358.80
<b>Sample Tag:</b> DL01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Chloride	16887-00-6	49.7		1.00	0.500
Sulfate	14808-79-8	168		5.00	2.50

<b>Sample #:</b> L12020399-11	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ORION-4STAR
<b>Client ID:</b> HTA15-0212-1	<b>Prep Method:</b> 9040C	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 9040C	<b>Cal Date:</b>
<b>Workgroup #:</b> WG389585	<b>Analyst:</b> DLP	<b>Run Date:</b> 02/14/2012 17:49
<b>Collect Date:</b> 02/13/2012 15:35	<b>Dilution:</b> 1	<b>File ID:</b> OS12021515244401
<b>Sample Tag:</b>	<b>Units:</b> UNITS	

Analyte	CAS #	Result	Qual	LOQ	LOD
Corrosivity pH	10-29-7	7.35		0.000	0.000

<b>Sample #:</b> L12020399-11	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA15-0212-1	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:43
<b>Collect Date:</b> 02/13/2012 15:35	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.037
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Bicarbonate (as CaCO <sub>3</sub> )		220		20.0	10.0

<b>Sample #:</b> L12020399-11	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA15-0212-1	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:43
<b>Collect Date:</b> 02/13/2012 15:35	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.037
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Carbonate (as CaCO <sub>3</sub> )			U	20.0	10.0

U	Analyte was not detected. The concentration is below the reported LOD.				
---	--	--	--	--	--

## Certificate of Analysis

<b>Sample #:</b> L12020399-11	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA15-0212-1	<b>Prep Method:</b> 310.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 310.2	<b>Cal Date:</b> 02/16/2012 10:26
<b>Workgroup #:</b> WG389747	<b>Analyst:</b> DIH	<b>Run Date:</b> 02/16/2012 10:43
<b>Collect Date:</b> 02/13/2012 15:35	<b>Dilution:</b> 1	<b>File ID:</b> SC120216003.037
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Alkalinity, Total (as CaCO3)		220		20.0	10.0

<b>Sample #:</b> L12020399-11	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> SMARTCHEM
<b>Client ID:</b> HTA15-0212-1	<b>Prep Method:</b> 353.2	<b>Prep Date:</b> N/A
<b>Matrix:</b> Water	<b>Analytical Method:</b> 353.2	<b>Cal Date:</b> 02/14/2012 11:13
<b>Workgroup #:</b> WG389640	<b>Analyst:</b> JBK	<b>Run Date:</b> 02/15/2012 11:13
<b>Collect Date:</b> 02/13/2012 15:35	<b>Dilution:</b> 8	<b>File ID:</b> SC12021615514301
<b>Sample Tag:</b>	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Nitrate-Nitrite (as N)		11.7		0.400	0.200

<b>Sample #:</b> L12020399-12	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ICP-THERMO2
<b>Client ID:</b> HTA15-0212-1	<b>Prep Method:</b> 3005A	<b>Prep Date:</b> 02/16/2012 07:08
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6010B	<b>Cal Date:</b> 02/16/2012 08:38
<b>Workgroup #:</b> WG389817	<b>Analyst:</b> KHR	<b>Run Date:</b> 02/16/2012 15:27
<b>Collect Date:</b> 02/13/2012 15:35	<b>Dilution:</b> 1	<b>File ID:</b> T2.021612.152731
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Aluminum, Dissolved	7429-90-5		U	0.100	0.0500
Beryllium, Dissolved	7440-41-7		U	0.00200	0.00100
Iron, Dissolved	7439-89-6		U	0.100	0.0500
Manganese, Dissolved	7439-96-5		U	0.0100	0.00500
Potassium, Dissolved	7440-09-7	1.23		1.00	0.500
Sodium, Dissolved	7440-23-5	63.1		0.500	0.250
Tin, Dissolved	7440-31-5		U	0.500	0.250
Vanadium, Dissolved	7440-62-2		U	0.0100	0.00500
Zinc, Dissolved	7440-66-6		U	0.0200	0.0100

U	Analyte was not detected. The concentration is below the reported LOD.				
---	--	--	--	--	--

## Certificate of Analysis

<b>Sample #:</b> L12020399-12	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ICP-THERMO2
<b>Client ID:</b> HTA15-0212-1	<b>Prep Method:</b> 3005A	<b>Prep Date:</b> 02/16/2012 07:08
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6010B	<b>Cal Date:</b> 02/17/2012 09:11
<b>Workgroup #:</b> WG389817	<b>Analyst:</b> KHR	<b>Run Date:</b> 02/17/2012 09:51
<b>Collect Date:</b> 02/13/2012 15:35	<b>Dilution:</b> 10	<b>File ID:</b> T2.021712.095105
<b>Sample Tag:</b> DL01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Calcium, Dissolved	7440-70-2	115		2.00	1.00
Magnesium, Dissolved	7439-95-4	27.8		5.00	2.50

<b>Sample #:</b> L12020399-12	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> ELAN-ICP
<b>Client ID:</b> HTA15-0212-1	<b>Prep Method:</b> 3015	<b>Prep Date:</b> 02/16/2012 10:00
<b>Matrix:</b> Water	<b>Analytical Method:</b> 6020	<b>Cal Date:</b> 02/16/2012 16:04
<b>Workgroup #:</b> WG389782	<b>Analyst:</b> EDL	<b>Run Date:</b> 02/16/2012 22:00
<b>Collect Date:</b> 02/13/2012 15:35	<b>Dilution:</b> 1	<b>File ID:</b> EL.021612.220020
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Antimony, Dissolved	7440-36-0		U	0.00100	0.000500
Arsenic, Dissolved	7440-38-2		U	0.00100	0.000500
Barium, Dissolved	7440-39-3	0.0327		0.00300	0.00150
Cadmium, Dissolved	7440-43-9		U	0.000600	0.000300
Chromium, Dissolved	7440-47-3		U	0.00200	0.00100
Cobalt, Dissolved	7440-48-4	0.00195		0.00100	0.000500
Copper, Dissolved	7440-50-8	0.00162	J	0.00200	0.00100
Lead, Dissolved	7439-92-1		U	0.00100	0.000500
Nickel, Dissolved	7440-02-0	0.00392	J	0.00400	0.00200
Selenium, Dissolved	7782-49-2	0.00255		0.00100	0.000500
Silver, Dissolved	7440-22-4		U	0.00100	0.000500
Thallium, Dissolved	7440-28-0		U	0.000200	0.000100
J	Estimated value ; the analyte concentration was less than the LOQ.				
U	Analyte was not detected. The concentration is below the reported LOD.				

## Certificate of Analysis

<b>Sample #:</b> L12020399-12	<b>PrePrep Method:</b> N/A	<b>Instrument:</b> HYDRA
<b>Client ID:</b> HTA15-0212-1	<b>Prep Method:</b> 7470A	<b>Prep Date:</b> 02/16/2012 07:13
<b>Matrix:</b> Water	<b>Analytical Method:</b> 7470A	<b>Cal Date:</b> 02/17/2012 13:00
<b>Workgroup #:</b> WG389917	<b>Analyst:</b> PDM	<b>Run Date:</b> 02/17/2012 13:30
<b>Collect Date:</b> 02/13/2012 15:35	<b>Dilution:</b> 1	<b>File ID:</b> HY.021712.133028
<b>Sample Tag:</b> 01	<b>Units:</b> mg/L	

Analyte	CAS #	Result	Qual	LOQ	LOD
Mercury, Dissolved	7439-97-6		U	0.000200	0.000100
U	Analyte was not detected. The concentration is below the reported LOD.				

Microbac Laboratories Inc.  
Ohio Valley Division Analyst List  
March 5, 2012

---

ADC - ANTHONY D. CANTER	AJF - AMANDA J. FICKIESEN	ALB - ANNIE L. BROWN
ALV - AMY L. VALENTINE	AML - TONY M. LONG	AZH - AFTER HOURS
BLG - BRENDA L. GREENWALT	BRG - BRENDA R. GREGORY	CAA - CASSIE A. AUGENSTEIN
CAF - CHERYL A. FLOWERS	CEB - CHAD E. BARNES	CLC - CHRYS L. CRAWFORD
CLS - CARA L. STRICKLER	CLW - CHARISSA L. WINTERS	CPD - CHAD P. DAVIS
CS - CODY M. STRAHLER	CSH - CHRIS S. HILL	DDE - DEBRA D. ELLIOTT
DEV - DAVID E. VANDENBERG	DGB - DOUGLAS G. BUTCHER	DHG - DEBORAH H. GRIFFITHS
DIH - DEANNA I. HESSON	DLB - DAVID L. BUMGARNER	DLP - DOROTHY L. PAYNE
DLR - DIANNA L. RAUCH	DSM - DAVID S. MOSSOR	ECL - ERIC C. LAWSON
EDL - ERIN D. LONG	ERP - ERIN R. PORTER	FJB - FRANCES J. BOLDEN
HAV - HEMA VILASAGAR	HJR - HOLLY J. REED	JAL - JOHN A. LENT
JBK - JEREMY B. KINNEY	JDH - JUSTIN D. HESSON	JKS - JANE K. SCHAAD
JLL - JOHN L. LENT	JWR - JOHN W. RICHARDS	JWS - JACK W. SHEAVES
JYH - JI Y. HU	KEB - KATIE E. BARNES	KHR - KIM H. RHODES
KRA - KATHY R. ALBERTSON	LKN - LINDA K. NEDEFF	LSB - LESLIE S. BUCINA
MDA - MIKE D. ALBERTSON	MDC - MIKE D. COCHRAN	MES - MARY E. SCHILLING
MMB - MAREN M. BEERY	MRT - MICHELLE R. TAYLOR	MSW - MATT S. WILSON
PDM - PIERCE D. MORRIS	PWD - PAUL W. DENT	RAH - ROY A. HALSTEAD
REK - BOB E. KYER	RLB - BOB BUCHANAN	RLK - ROBIN L. KLINGER
RWC - RODNEY W. CAMPBELL	SJP - SUZANNE J. PAUGH	SLM - STEPHANIE L. MOSSBURG
SLP - SHERI L. PFALZGRAF	TIP - TAE I. PARRISH	TMB - TIFFANY M. BAILEY
TMM - TAMMY M. MORRIS	VC - VICKI COLLIER	WJB - WILL J. BEASLEY
WTD - WADE T. DELONG		

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the LOQ.
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentatively identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported LOD.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

## \*\*\*Special Notes for Organic Analytes



1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.



COC No. A 28496

158 Starlite Drive  
Marietta, OH 45750

Microbac

Phone: 740-373-4071

Fax: 740-373-4835

## CHAIN-OF-CUSTODY RECORD

Company Name: <b>Zia / SHAW</b>		Contact Phone #: <b>505-262-8920</b>		Location: <b>WSMR</b>		Project ID: <b>HTA 013/0D</b>		Signature: <b>Bradley T. Davis</b>		Hold		NUMBER OF CONTAINERS		Program		ADDITIONAL REQUIREMENTS					
Project Contact: <b>Mark Lyon</b>		Turn Around Requirements: <b>Normal</b>		Project ID: <b>HTA 013/0D</b>		Signature: <b>Bradley T. Davis</b>		Hold		NUMBER OF CONTAINERS		Program		ADDITIONAL REQUIREMENTS		TOTAL # (LAB USE)					
Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	Perchlorate		Explosives		Anions		Metals Total		Metals Dissolved		Alkalinity		NO <sub>3</sub> NO <sub>2</sub>		PH	
HTA 19-0212-1		X	2-13-12	1040	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
HTA 19-0212-2		X	2-13-12	1040	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
HTA 16D-0212-1		X	2-13-12	1200	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
HTA 16-0212-1		X	2-13-12	1305	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
HTA 17-0212-1		X	2-13-12	1420	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
HTA 15-0212-1		X	2-13-12	1535	W	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Relinquished by: <b>Bradley T. Davis</b>		Date: <b>2-13-12</b>		Time: <b>1700</b>		Microbac OVD		Received: 02/14/2012 12:27		By: BOB BUCHANAN		221000022374		Date		Time		Received by: (Signature)		Remarks:	
Relinquished by: <b>Bradley T. Davis</b>		Date: <b>2-13-12</b>		Time: <b>1700</b>		Microbac OVD		Received: 02/14/2012 12:27		By: BOB BUCHANAN		221000022374		Date		Time		Received by: (Signature)		Remarks:	

\*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

## Internal Chain of Custody Report

Login: L12020399

Account: 3005

Project: 3005.011

Samples: 12

Due Date: 24-FEB-2012

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L12020399-01	937592	300 8330

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	PREP	W1	EXT	15-FEB-2012 09:52	RAH	RLK	
3	DISP	EXT	DISP	16-FEB-2012 08:48	RLB	RLB	
4	ANALYZ*	EXT	SEMI	22-FEB-2012 18:09	JWR	RAH	

*\*Sample extract/digestate/leachate*

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	STORE	W1	A1	28-FEB-2012 12:27	BLG	BLG	

*\*Sample extract/digestate/leachate*

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L12020399-01	937593	

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	SEM	15-FEB-2012 14:12	JBK	RLK	
3	STORE	SEM	A1	29-FEB-2012 11:12	RLK	JBK	

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L12020399-01	937594	ALK ALK-B ALK-C

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	16-FEB-2012 08:01	DIH	RLK	
3	STORE	WET	A1	17-FEB-2012 07:09	AZH	DIH	

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L12020399-01	937595	COR-PH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	14-FEB-2012 16:14	JDH	RLK	

A1 - Sample Archive (COLD)  
 A2 - Sample Archive (AMBIENT)  
 F1 - Volatiles Freezer in Login  
 V1 - Volatiles Refrigerator in Login  
 W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L12020399

Account: 3005

Project: 3005.011

Samples: 12

Due Date: 24-FEB-2012

**Samplenum**      **Container ID**      **Products**  
**L12020399-01**      937596      6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	SEM	23-FEB-2012 08:56	JWR	JKS	
3	STORE	SEM	A1	28-FEB-2012 10:06	RLK	JWR	

**Samplenum**      **Container ID**      **Products**  
**L12020399-01**      937597      NO3NO2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	15-FEB-2012 09:51	JBK	RLK	

**Samplenum**      **Container ID**      **Products**  
**L12020399-01**      937598      FE MN

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		<2
2	PREP	W1	DIG	15-FEB-2012 05:32	REK	AZH	
3	ANALYZ*	DIG	METALS	16-FEB-2012 13:21	KHR	REK	
4	STORE	DIG	A1	16-FEB-2012 14:34	RLK	ERP	

*\*Sample extract/digestate/leachate*

**Samplenum**      **Container ID**      **Products**  
**L12020399-02**      937599      AG-MSD AL-D AS-MSD BA-MS-D BE-AX-D CA-D CD-MS-

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	PREP	W1	DIG	15-FEB-2012 05:32	REK	AZH	
3	STORE	DIG	A1	15-FEB-2012 14:46	RLK	ERP	
4	ANALYZ*	DIG	METALS	16-FEB-2012 11:37	EDL	REK	

*\*Sample extract/digestate/leachate*

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L12020399

Account: 3005

Project: 3005.011

Samples: 12

Due Date: 24-FEB-2012

**Samplenum**      **Container ID**      **Products**  
**L12020399-03**      937600      300 8330

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	PREP	W1	EXT	15-FEB-2012 09:52	RAH	RLK	
3	DISP	EXT	DISP	16-FEB-2012 08:48	RLB	RLB	
4	ANALYZ*	EXT	SEMI	22-FEB-2012 18:09	JWR	RAH	

*\*Sample extract/digestate/leachate*

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	STORE	W1	A1	28-FEB-2012 12:27	BLG	BLG	

*\*Sample extract/digestate/leachate*

**Samplenum**      **Container ID**      **Products**  
**L12020399-03**      937601

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	SEM	15-FEB-2012 14:12	JBK	RLK	
3	STORE	SEM	A1	29-FEB-2012 11:12	RLK	JBK	

**Samplenum**      **Container ID**      **Products**  
**L12020399-03**      937602      ALK ALK-B ALK-C

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	16-FEB-2012 08:01	DIH	RLK	
3	STORE	WET	A1	17-FEB-2012 07:09	AZH	DIH	

**Samplenum**      **Container ID**      **Products**  
**L12020399-03**      937603      COR-PH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	14-FEB-2012 16:14	JDH	RLK	
3	STORE	WET	A1	15-FEB-2012 08:10	JKS	DLP	

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L12020399

Account: 3005

Project: 3005.011

Samples: 12

Due Date: 24-FEB-2012

Samplenum      Container ID      Products  
**L12020399-03**      937604      6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	SEM	23-FEB-2012 08:57	JWR	JKS	
3	STORE	SEM	A1	28-FEB-2012 10:06	RLK	JWR	

Samplenum      Container ID      Products  
**L12020399-03**      937605      NO3NO2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	15-FEB-2012 09:51	JBK	RLK	

Samplenum      Container ID      Products  
**L12020399-03**      937606      FE MN

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		<2
2	PREP	W1	DIG	15-FEB-2012 05:32	REK	AZH	
3	ANALYZ*	DIG	METALS	16-FEB-2012 13:21	KHR	REK	
4	STORE	DIG	A1	16-FEB-2012 14:34	RLK	ERP	

*\*Sample extract/digestate/leachate*

Samplenum      Container ID      Products  
**L12020399-04**      937607      AG-MSD AL-D AS-MSD BA-MS-D BE-AX-D CA-D CD-MS-

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	PREP	W1	DIG	15-FEB-2012 05:32	REK	AZH	
3	STORE	DIG	A1	15-FEB-2012 14:46	RLK	ERP	
4	ANALYZ*	DIG	METALS	16-FEB-2012 11:37	EDL	REK	

*\*Sample extract/digestate/leachate*

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L12020399

Account: 3005

Project: 3005.011

Samples: 12

Due Date: 24-FEB-2012

**Samplenum**      **Container ID**      **Products**  
**L12020399-05**      937608      300 8330

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	PREP	W1	EXT	15-FEB-2012 09:52	RAH	RLK	
3	DISP	EXT	DISP	16-FEB-2012 08:46	RLB	RLB	
4	ANALYZ*	EXT	SEMI	22-FEB-2012 18:09	JWR	RAH	

*\*Sample extract/digestate/leachate*

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	STORE	W1	A1	28-FEB-2012 12:27	BLG	BLG	

*\*Sample extract/digestate/leachate*

**Samplenum**      **Container ID**      **Products**  
**L12020399-05**      937609

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	SEM	15-FEB-2012 14:12	JBK	RLK	
3	STORE	SEM	A1	29-FEB-2012 11:12	RLK	JBK	

**Samplenum**      **Container ID**      **Products**  
**L12020399-05**      937610      ALK ALK-B ALK-C

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	16-FEB-2012 08:01	DIH	RLK	
3	STORE	WET	A1	17-FEB-2012 07:09	AZH	DIH	

**Samplenum**      **Container ID**      **Products**  
**L12020399-05**      937611      COR-PH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	14-FEB-2012 16:14	JDH	RLK	
3	STORE	WET	A1	15-FEB-2012 08:10	JKS	DLP	

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L12020399

Account: 3005

Project: 3005.011

Samples: 12

Due Date: 24-FEB-2012

Samplenum      Container ID      Products  
**L12020399-05**      937612      6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	SEM	23-FEB-2012 08:57	JWR	JKS	
3	STORE	SEM	A1	28-FEB-2012 10:06	RLK	JWR	

Samplenum      Container ID      Products  
**L12020399-05**      937613      NO3NO2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	15-FEB-2012 09:51	JBK	RLK	

Samplenum      Container ID      Products  
**L12020399-05**      937614      FE MN

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		<2
2	PREP	W1	DIG	15-FEB-2012 05:32	REK	AZH	
3	ANALYZ*	DIG	METALS	16-FEB-2012 13:21	KHR	REK	
4	STORE	DIG	A1	16-FEB-2012 14:34	RLK	ERP	

*\*Sample extract/digestate/leachate*

Samplenum      Container ID      Products  
**L12020399-06**      937615      AG-MSD AL-D AS-MSD BA-MS-D BE-AX-D CA-D CD-MS-

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	PREP	W1	DIG	15-FEB-2012 05:32	REK	AZH	
3	STORE	DIG	A1	15-FEB-2012 14:46	RLK	ERP	
4	ANALYZ*	DIG	METALS	16-FEB-2012 11:37	EDL	REK	

*\*Sample extract/digestate/leachate*

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L12020399

Account: 3005

Project: 3005.011

Samples: 12

Due Date: 24-FEB-2012

**Samplenum**      **Container ID**      **Products**  
**L12020399-07**      937616      300 8330

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	PREP	W1	EXT	15-FEB-2012 09:52	RAH	RLK	
3	DISP	EXT	DISP	16-FEB-2012 08:48	RLB	RLB	
4	ANALYZ*	EXT	SEMI	22-FEB-2012 18:09	JWR	RAH	

*\*Sample extract/digestate/leachate*

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	STORE	W1	A1	28-FEB-2012 12:27	BLG	BLG	

*\*Sample extract/digestate/leachate*

**Samplenum**      **Container ID**      **Products**  
**L12020399-07**      937617

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	SEM	15-FEB-2012 14:12	JBK	RLK	
3	STORE	SEM	A1	29-FEB-2012 11:12	RLK	JBK	

**Samplenum**      **Container ID**      **Products**  
**L12020399-07**      937618      ALK ALK-B ALK-C

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	16-FEB-2012 08:01	DIH	RLK	
3	STORE	WET	A1	17-FEB-2012 07:09	AZH	DIH	

**Samplenum**      **Container ID**      **Products**  
**L12020399-07**      937619      COR-PH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	14-FEB-2012 16:14	JDH	RLK	
3	STORE	WET	A1	15-FEB-2012 08:10	JKS	DLP	

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L12020399

Account: 3005

Project: 3005.011

Samples: 12

Due Date: 24-FEB-2012

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L12020399-07	937620	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	SEM	23-FEB-2012 08:57	JWR	JKS	
3	STORE	SEM	A1	28-FEB-2012 10:06	RLK	JWR	

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L12020399-07	937621	NO3NO2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	15-FEB-2012 09:51	JBK	RLK	

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L12020399-07	937622	FE MN

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		<2
2	PREP	W1	DIG	15-FEB-2012 05:32	REK	AZH	
3	ANALYZ*	DIG	METALS	16-FEB-2012 13:21	KHR	REK	
4	STORE	DIG	A1	16-FEB-2012 14:34	RLK	ERP	

*\*Sample extract/digestate/leachate*

<u>Samplenum</u>	<u>Container ID</u>	<u>Products</u>
L12020399-08	937623	AG-MSD AL-D AS-MSD BA-MS-D BE-AX-D CA-D CD-MS-

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	PREP	W1	DIG	15-FEB-2012 05:32	REK	AZH	
3	STORE	DIG	A1	15-FEB-2012 14:46	RLK	ERP	
4	ANALYZ*	DIG	METALS	16-FEB-2012 11:37	EDL	REK	

*\*Sample extract/digestate/leachate*

A1 - Sample Archive (COLD)  
 A2 - Sample Archive (AMBIENT)  
 F1 - Volatiles Freezer in Login  
 V1 - Volatiles Refrigerator in Login  
 W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L12020399

Account: 3005

Project: 3005.011

Samples: 12

Due Date: 24-FEB-2012

**Samplenum**      **Container ID**      **Products**  
**L12020399-09**      937624      300 8330

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	PREP	W1	EXT	15-FEB-2012 09:52	RAH	RLK	
3	DISP	EXT	DISP	16-FEB-2012 08:48	RLB	RLB	
4	ANALYZ*	EXT	SEMI	22-FEB-2012 18:09	JWR	RAH	

*\*Sample extract/digestate/leachate*

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	STORE	W1	A1	28-FEB-2012 12:27	BLG	BLG	

*\*Sample extract/digestate/leachate*

**Samplenum**      **Container ID**      **Products**  
**L12020399-09**      937625

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	SEM	15-FEB-2012 14:12	JBK	RLK	
3	STORE	SEM	A1	29-FEB-2012 11:12	RLK	JBK	

**Samplenum**      **Container ID**      **Products**  
**L12020399-09**      937626      ALK ALK-B ALK-C

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	16-FEB-2012 08:01	DIH	RLK	
3	STORE	WET	A1	17-FEB-2012 07:09	AZH	DIH	

**Samplenum**      **Container ID**      **Products**  
**L12020399-09**      937627      COR-PH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	14-FEB-2012 16:14	JDH	RLK	
3	STORE	WET	A1	15-FEB-2012 08:10	JKS	DLP	

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L12020399

Account: 3005

Project: 3005.011

Samples: 12

Due Date: 24-FEB-2012

**Samplenum**      **Container ID**      **Products**  
**L12020399-09**      937628      6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	SEM	23-FEB-2012 08:56	JWR	JKS	
3	STORE	SEM	A1	28-FEB-2012 10:06	RLK	JWR	

**Samplenum**      **Container ID**      **Products**  
**L12020399-09**      937629      NO3NO2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	15-FEB-2012 09:51	JBK	RLK	

**Samplenum**      **Container ID**      **Products**  
**L12020399-09**      937630      FE MN

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		<2
2	PREP	W1	DIG	15-FEB-2012 05:32	REK	AZH	
3	ANALYZ*	DIG	METALS	16-FEB-2012 13:21	KHR	REK	
4	STORE	DIG	A1	16-FEB-2012 14:34	RLK	ERP	

*\*Sample extract/digestate/leachate*

**Samplenum**      **Container ID**      **Products**  
**L12020399-10**      937631      AG-MSD AL-D AS-MSD BA-MS-D BE-AX-D CA-D CD-MS-

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	PREP	W1	DIG	15-FEB-2012 05:32	REK	AZH	
3	STORE	DIG	A1	15-FEB-2012 14:46	RLK	ERP	
4	ANALYZ*	DIG	METALS	16-FEB-2012 11:37	EDL	REK	

*\*Sample extract/digestate/leachate*

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L12020399

Account: 3005

Project: 3005.011

Samples: 12

Due Date: 24-FEB-2012

Samplenum      Container ID      Products  
**L12020399-11**      937632      300 8330

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	PREP	W1	EXT	15-FEB-2012 09:52	RAH	RLK	
3	DISP	EXT	DISP	16-FEB-2012 08:47	RLB	RLB	
4	ANALYZ*	EXT	SEMI	22-FEB-2012 18:09	JWR	RAH	

*\*Sample extract/digestate/leachate*

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	STORE	W1	A1	28-FEB-2012 12:27	BLG	BLG	

*\*Sample extract/digestate/leachate*

Samplenum      Container ID      Products  
**L12020399-11**      937633

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	SEM	15-FEB-2012 14:12	JBK	RLK	
3	STORE	SEM	A1	29-FEB-2012 11:12	RLK	JBK	

Samplenum      Container ID      Products  
**L12020399-11**      937634      ALK ALK-B ALK-C

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	16-FEB-2012 08:01	DIH	RLK	
3	STORE	WET	A1	17-FEB-2012 07:09	AZH	DIH	

Samplenum      Container ID      Products  
**L12020399-11**      937635      COR-PH

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	14-FEB-2012 16:14	JDH	RLK	
3	STORE	WET	A1	15-FEB-2012 08:10	JKS	DLP	

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login



## Internal Chain of Custody Report

Login: L12020399

Account: 3005

Project: 3005.011

Samples: 12

Due Date: 24-FEB-2012

Samplenum      Container ID      Products  
**L12020399-11**      937636      6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	SEM	23-FEB-2012 08:57	JWR	JKS	
3	STORE	SEM	A1	28-FEB-2012 10:06	RLK	JWR	

Samplenum      Container ID      Products  
**L12020399-11**      937637      NO3NO2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	ANALYZ	W1	WET	15-FEB-2012 09:51	JBK	RLK	

Samplenum      Container ID      Products  
**L12020399-11**      937638      FE MN

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		<2
2	PREP	W1	DIG	15-FEB-2012 05:32	REK	AZH	
3	ANALYZ*	DIG	METALS	16-FEB-2012 13:21	KHR	REK	
4	STORE	DIG	A1	16-FEB-2012 14:34	RLK	ERP	

*\*Sample extract/digestate/leachate*

Samplenum      Container ID      Products  
**L12020399-12**      937639      AG-MSD AL-D AS-MSD BA-MS-D BE-AX-D CA-D CD-MS-

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	14-FEB-2012 15:05	RLK		
2	PREP	W1	DIG	15-FEB-2012 05:32	REK	AZH	
3	STORE	DIG	A1	15-FEB-2012 14:46	RLK	ERP	
4	ANALYZ*	DIG	METALS	16-FEB-2012 11:37	EDL	REK	

*\*Sample extract/digestate/leachate*

A1 - Sample Archive (COLD)  
A2 - Sample Archive (AMBIENT)  
F1 - Volatiles Freezer in Login  
V1 - Volatiles Refrigerator in Login  
W1 - Walkin Cooler in Login

